	Table 1. Representative MEK Inhibitors		
Cmpd No.	Structure	Name	
226	I SHAN	3-[1-(diethylamino)propyl]-1-(13,4-difluoro-2-[(2-fluoro-4-iodephenyl)amino]phenyl]carbonyl)aze tidin-3-ol	
227	HO HO OH	3-{{[1-{(3,4-difluoro-2-{(2-fluoro-4-iodophenyl)amino]phenyl)-arbonyl}-arbotyl}-arbotyl}-arbotyly-amino)-s-(hydroxymethyl)-yclopentane-1,2-diol	
228		1-{{3,4-difluoro-2-{(2-fluoro-4- iodopheny)amino]phenyl}:arbonyl)-3- piperidin-2-ylazetidin-3-ol	
229	, S P P ON NOH H	l-{{3,4-difluoro-2-[(2-fluoro-4- iodophenyl)amino]phenyl)carbonyl)-3- {{((3- fluorophenyl)amino]methyl}azetidin-3- ol	
230		1-{{3,4-difluoro-2-{(2-fluoro-4- iodophenyi)aminolphenyi) carbonyi)-3- (1-methylpiperidin-2-yl)azetidin-3-ol	

Table 1. Representative MEA		MEK Inhibitors
Cmp No.	od .	Name
231	HAN HO	1-{[1-({3,4-difluoro-2-{(2-fluoro-4-iodopheny)]amino]phenyl)carbonyl)-3-hydroxyazetidin-3-yl]methyl) guanidine
232	NO <sub>2</sub> -H <sub>H</sub> HO N <sub>H</sub> LN <sub>O</sub> H <sub>F</sub>	I-{[I-{(3,4-difluoro-2-{(2-fluoro-4-iodophenyl)aminojphenyl)carbonyl)-3-hydroyazeidin-3-yl]methyl}-3-nitroguanidine
233		N-{1-[1-(3,4-difluoro-2-[(2-fluoro-4-iodepheny/)amino]pheny])carbonyly-3-hydroxyazetidin-3-y]lethyl} acetamide
234	P P P P P P P P P P P P P P P P P P P	(2R)-N-{1-[1-{{3,4-difluoro-2-{(2-fluoro-1)zarbonyl)-3-hydroxyazcidin-3-yl[ehyl)-3,3,3-trifluoro-2-fluoryl)-2-phenylpropanamide
235	OH II NH	I-{{3,4-diffluoro-2-[(2-fluoro-4- iodophenyi)amino]phenyi}-arbonyi)-3- {{(piperidin-4- ylmethyl)amino]methyl} azetidin-3-ol

	<u> </u>	Table 1. Representati	ve MEK Inhibitan
	Cm No	pd	Name
	236	THO NE	
	237		1-{{3,4-difluoro-2-{(2-fluoro-4-iodopheny)}amino]pheny}}earbony}}-3-{{({{2-4-methyleiperazin-1-yl)pheny}}methyl]azetidin-3-ol
	238	, S S S S S S S S S S S S S S S S S S S	3-[[(1,1-dimethylethyl)amino]methyl)- l+([4-(2-fluoro-4-iodophenyl)amino]- 3-thienyl)carbonyl)azetidin-3-ol
	239	NOH HO	l-({3,4-difluoro-2-{(2-fluoro-4-iodophenyl)amino]phenyl}-arbonyl)-3-{({2-fluoro-ycyclohexyl)amino]methyl}-azeti din-3-oi
:	240	OH FF	1-((3,4-difluoro-2-((2-fluoro-4- iodophenyl)amino]phenyl)-carbonyl)-3- (((2,2,3,3- pemafluoropropyl)amino]methyl) azetid in-3-ol

	Table 1. Representative MEK Inhibitors		
Cmpd No.	Structure	Name	
241	OH NH F F F F	1-{(3,4-difluoro-2-{(2-fluoro-4- iodopheny)kamino]pheny)}-a- ((0,3,3- trifluoropropy))amino]methyl) azetidin- 3-oli	
242	OH HOW	N-[3-{{[1-{(3,4-difluoro-2- (2-fluoro-4-iodopheny)}amino]pheny)}-abydroxyazetidin-3-ydjmethy]amino)phenyl]methanesulfon amide	
243		N-{[1-{(3,4-difluoro-2-[(2-fluoro-4-iodophenyl)amino]phenyl)-arbonyl)-3-hydroxyazetidin-3-yl]methyl} methanesulfonamide	
244	ON N-NH	3-{{[1-{(3,4-difluoro-2-{(2-fluoro-4-iodophenyl)amino]phenyl)actbonyl}-3-hydroxyazetidin-3-yl]methyl]amino)-1H-pyrazol-5-ol	

Table 1. Representative MEK Inhibitors		
Cmpd No.	Structure	Name
245	HO HOOH	(1R,2S)-4-({[1-({3,4-diffuoro-2-{(2-fluoro-4-iodophenyl)amino]phenyl}carbonyl)-3-hydroxyazetidin-3-yl]methyl]amino)eyelopentane-1,2-diol
246	HO NOH	1-{(3,4-difluoro-2-[(2-fluoro-4- iodopheny)lamino]phenyl}-aribonyl)-3- ([[1-flydroymthyl)eyclohexyl]amino )methyl)azetidin-3-ol
247	H H Ca	3-[[(3-chlorophenyl)amino]methyl)-1- ((3,4-difluoro-2-[(2-fluoro-4- iodophenyl)amino]phenyl)carbonyl)aze tidin-3-ol

Table 1. Representative MEK Inhibitors		
Cmpd No.	Structure	Name
248	HO N CI	3-{[(4-chlorophenyl)amino]methyl}-1- ({3,4-difluoro-2-{(2-fluoro-4- iodophenyl)amino]phenyl)carbonyl)aze tidin-3-ol
249	HO NH <sub>2</sub>	3-{(S-amino-3-methyl-1 <i>H</i> -pyrazol-1- yl)methyl]-1-{(3,4-difluoro-2-{(2- fluoro-4- iodophenyl)amino]phenyl}carbonyl)aze tldim-3-ol
250	HO HONNINH	1-{(3,4-difluoro-2-[(2-fluoro-4- iodopheny)lamioplemy)learbonyl)-3- ([(5-methyl-1/f-ypvazol-3- yl)amino]methyl) azetidin-3-ol
251		1-{{3,4-difluoro-2-{(2-fluoro-4-iodophenyl)amino]phenyl} carbonyl}-3-(1-ethylpyrrolidim-2-yl)azetidin-3-ol

	Table 1. Representative MEK Inhibitors		
Cmpd No.	Structure	Name	
252	OH ON PERSON	(2R)-N-{(1S)-i-[1-({3,4-difluoro-2-{(2-fluoro-4-fluoro)-4-fluoro-4-fluoro-4-fluoro-4-fluoro-4-fluoro-2	
253	HO NH	I-{{3,4-difluoro-2-{(2-fluoro-4-iodophenyl)amino]phenyl}carbonyl)-3- {{{{1-(iodophenyl)amino]phenyl}amino}methyl)azeti din-3-ol	
254	OH NH <sub>2</sub>	3-(1-amino-2-methylpropyl)-1-({3,4-difluoro-2-(2-fluoro-4-iodophenyl)amino phenyl)carbonyl)aze tidin-3-ol	
255	HO NH,	3-{[(4-aminophenyl)amino]methyl}-1- ((3,4-difluoro-2-{(2-fluoro-4- iodophenyl)amino]phenyl}carbonyl)aze tidin-3-ol	

Table 1. Representative MEK Inhibitors		
Cmpd No.	Structure	Name
256	T N N OH	1-{{3,4-difluoro-2-{(2-fluoro-4- iodopheny)]amino]phenyl)}-3- {{(2-hydroxy-2- methylcyclopentyl)amino]methyl} azeti din-3-ol
257	OH HOOH	1-((3,4-difluoro-2-((2-fluoro-4-iodophenyl)amino]phenyl)carbonyl)-3-(1-((4-hydroxyeyelohexyl)amino]ethyl)azetidi n-3-ol
258	HO OH OH HO OH	methyl (2xi)-2-deoxy-2-{{[[1-{{3,4-difluoro-2-{(2-fluoro-4-iodophenyl)amino]phenyl)carbonyl)-3-bydroxyazetidin-3-yl]nethyl)amino)-beta-D-arabino-hexopyranoside
259	, , , , , ,	1-{ (3,4-difluoro-2-[(2-fluoro-4- iodopheny)]amino]phenyl]carbonyl)-3- pyridin-2-ylazetidin-3-ol

	Table 1. Representative MEK Inhibitors		
Cmpd No.	Structure	Name	
260	H OH OH	1-{(3,4-difluoro-2-{(2-fluoro-4- iodophenyl)amino]phenyl) carbonyl)-3- ({[1- (hydroxymethyl)cyclopentyl]amino) me thyl)azetidin-3-ol	
261	N= HHO NH CHARLES	1-cyano-3-{[1-{(3,4-difluoro-2-[(2-fluoro-4-iodopheny)]amino]phenyl}carbonyl)-3-hydroxyazetidin-3-yl]methyl} guanidine	
262		6-((3-[(ethylamino)methyl]-3-fluoroazetidin-1-yl]carbonyl)-2,3-difluoro-N-(2-fluoro-4-iodophenyl)aniline	
263	OH NO2	1-{{3,4-difluoro-2-{(2-fluoro-4-iodophenyl)amino phenyl)carbonyl)-3-(1-nitroethyl)azetidin-3-ol	

Table 1. Representative MEK Inhibitors		
Cmpd No.	Structure	Name
264	HO N FOH	1-4(3,4-difluoro-2-(2-fluoro-4- iodophenyl)amino]phenyl)-carbonyl)-3- {([3-fluoro-4- hydroxyphenyl)amino]methyl}-azetidin- 3-ol
265	HONN FOOH	1-{(3,4-difluoro-2-[(2-fluoro-4- iodophenyl)amino]phenyl)carbonyl)-3- {((2-fluoro-4- hydroxyphenyl)amino methyl)azetidin- 3-ol
266	HO NH <sub>2</sub>	3-(1-amimoethyl)-1-({8-chloro-7-[(2-fluoro-4-iodopheny)pamino]imidazo[1,2-a]pyridin-6-yl)carbonyl)azetidin-3-ol
267	OH NH	1-{3.4-difluoro-2-[(2-fluoro-4-iodopheny)]amino]pheny]} carbonyl)-3-[1-{methylamino}ethyl]azetidin-3-ol
268	OH HN	1-([8-fluoro-7-[(2-fluoro-4- iodopheny))amino]imidazo[1,2- a]pyridin-6-y)(arbony))-7-[(25)- piperidin-2-y1]azztidin-3-ol

Table 1. Representative MEK Inhibitors		
Cmpd No.	Structure	Name
269	OH H LOH	1-{{8-fluoro-7-[(2-fluoro-4- iodopheny)]amino]imidazo[],2- a]pyridin-6-y1)carbonyl)-3-((15)-1- ((2-hydroxy-2- methylcyclopentyl)amino]ethyl) azeti din-3-ol
270	F F ON N	1-({3,4-difluoro-2-[(2-fluoro-4-iodopheny)]amino]phenyl}carbonyl)-3-(1 <i>H</i> -imidazol-2-yl)azetidin-3-ol
271		1-(43.4-difluoro-2-(2-fluoro-4- iodopheny)lamino]phenyl)-arbonyl)-3- (1 <i>H</i> -pyrrol-2-yl)azetidin-3-ol
272	THO WE FEE	N-{{1-{3,4-difluoro-2-{(2-fluoro-4-iodopheny)amino]pheny}}-arbony})-3-hydroxyazetidin-3- yl]methyi}benzenecarboximidamide
273	H <sub>2</sub> N HO O <sub>2</sub> N P	3-{{[(E)-1-amino-2- nitroetheny jamino methyl)-1-{(3,4- difluoro-2-{(2-fluoro-4- iodopheny jamino phenyl)carbonyl)aze tidin-3-ol

Table 1. Representative MEK Inhibitors		
Cmpd No.	Structure	Name
274		I-{{3,4-diffuoro-2-{(2-fluoro-4-iodophenyl)amino]phenyl)carbonyl}-3-(1-methyl-1-nitroethyl)azetidin-3-ol
275	NH,	3-(1-amino-1-methylethyl)-1-((3,4-difluoro-2-([2-fluoro-4-diodophenyl)amino]phenyl)carbonyl)aze tidin-3-ol
276		3-[(1//-benzimidazol-2- ylamino)methyl]-1-([3,4-difluoro-2- [(2-fluoro-4- iodophenyl)amino]phenyl] carbonyl)aze tidin-3-ol
277		1-{{3,4-difluoro-2-[(2-fluoro-4- iodophenyl)anino]phenyl]-carbonyl) -3-[{1 <i>H</i> -imidazol-2- ylamino)methyl]azetidin-3-ol
278	OH N	methyl { -{1-{3,4-difluoro-2-{(2-fluoro-4-iodophenyl)amino]phenyl}carbonyl)-3-hydroxyazetidin-3-yl]ethyl}carbamate

Table 1. Representative MEK Inhibitors		
Cmpd No.	Structure	Name
279		3-(1H-benzimidazol-2-yl)-1-({3,4-difluoro-2-[(2-fluoro-4-iodophenyl)amino]phenyl] carbonyl)aze tidin-3-ol
280		1-([3.4-difluoro-2-[(2-fluoro-4-iodophenyl)amino)phenyl)carbonyl)-3- [1-(dimethylamino)ethyl]azetidin-3-ol
281	CN HO N CN F F F	1-({3,4-difluoro-2-((2-fluoro-4-iodopheny)lamino]pheny]) carbony)-3-((pyrimidin-2-ylamino)methyl]azetidin-3-ol
282	CN-H-PC-N-CN-N-CN-N-CN-N-CN-N-CN-N-CN-N-	l-({3,4-difluoro-2-[(2-fluoro-4- iodopheny)]amino]phenyl}-carbonyl)-3- ((pyridin-2-ylamino)methyl]azetidin-3- ol
283	S S S S S S S S S S S S S S S S S S S	1-{{3,4-difluoro-2-{(2-fluoro-4- iodophenyl)amino]phenyl]carbonyl)-3- (1-methyl-1 <i>H</i> -imidazol-2-yl)azetidin-3- ol

Table 1. Representative MEK Inhibitors		
Cmpd No.	Structure	Name
284	HO NHS	3-(1-aminoburyl)-1-({3,4-diffuoro-2- [(2-fluoro-4- iodophenyl)amino]phenyl)carbonyl)aze tidin-3-ol
285	P P P P P P P P P P P P P P P P P P P	1-{{2-fluoro-3-{(2-fluoro-4- iodopheny))amino]pyridin-4- yl);asrbony)/3-{{2S}-pyrrolidin-2- yl]azetidin-3-ol
286		1-{{8-fluoro-7-{(2-fluoro-4- iodopheny)amino]-4- methylcinosiin-6-yl}carbonyl)-3- {(25)-piperidin-2-yl]azetidin-3-ol
287	H NH	3-[amino(phenyl)methyl]-1-{{3,4-difluoro-2-{(2-fluoro-4-iodophenyl)amino phenyl}earbonyl)aze tidin-3-ol
288		1-({3,4-difluoro-2-[(2-fluoro-4- iodopheny])amino]pheny]}carbony])-3- (5-methyl-1 <i>H</i> -imidazol-2-yl)azetidin-3- ol

Table 1. Representative MEK Inhibitors		
Cmpd No.	Structure	Name
289		1,1-dimethylethyl (25)-2-[1-({3,4-difluore-2-{(2-fluore-4-iodophenyl)amino]phenyl) carbonyl)-3-hydroxyazetidin-3-yl]piperidine-1-carboxylate
290	Br F F	I-({2-{(4-bromo-2- chloropheny)]amino]-3,4- difluoropheny)]carbonyi)-3-piperidin- 2-ylazetidin-3-ol
291	H OH	3-(1-amino-3-hydroxypropyl)-1-((3,4-difluoro-2-((2-fluoro-4-iodophenyl)amino)phenyl)carbonyl)aze tidin-3-ol
292	, S F S F S F S F S F S F S F S F S F S	1-((3,4-difluoro-2-[(2-fluoro-4- iodophenyl)amino]phenyl]carbonyl)-3- ((IH-imidazol-2-ylmethyl)azetidin-3-ol
293	HO NH	3-(1-aminocyclopentyl)-1-({3,4-difluoro-2-{(2-fluoro-4-iodophenyl)amino]phenyl}carbonyl)aze tidin-3-ol

Table 1. Representative MEK Inhibitors		
Cmpd No.	Structure	Name
294	OH NH,	3-(2-aminocyclohexyl)-1-({3,4-difluoro-2-{(2-fluoro-4-iodophenyl)amino]phenyl}carbonyl)aze tidin-3-ol
295	NH,	3-(2-aminocyclopentyl)-1-({3,4-difluoro-2-[(2-fluoro-4-iodophenyl)amino]phenyl)-carbonyl)-azetidin-3-ol
296		1-{{4-fluoro-5-{(2-fluoro-4- iodopheny)amino}-1-methyl-1 <i>H</i> - benzimidazol-6-yl}carbonyl)-3- piperidin-2-ylazetidin-3-ol
297	Br R N=	1-{{5-[{4-bromo-2- chlorophenyl)amino]-4-fluoro-1- methyl-1/f-benzimidazol-6- yl) carbonyl-3-{{23-piperidin-2- yl]azetidin-3-ol

Table 1. Representative MEK Inhibitors		
Cmpd No.	Structure	Name
298		I-{{8-chloro-7-{(2-fluoro-4- iodophenyl)amino]midazo[1,2- a]pyridin-6-yl]carbonyl)-3-piperidin-2- ylazetidin-3-ol
299	HO H	I{{2-!{4-bromo-2- fluoropheny}\ambino}-3,4- diffuoropheny)-iz-brony\)-3-piperidin- 2-ylazetidin-3-ol
300	B F N	1-{(7-{(4-brono-2- fluoropheny)amino}-8- fluoroimidazo[1,2-a]pyridin-6- y) carbony)-3-{(25)-piperidin-2- yi]azetidin-3-ol
301	F F NO <sub>2</sub>	1-{(3,4-difluoro-2-{(2-fluoro-4- iodophenyl)amino[phenyl]carbonyl)-3- (3-methyl-1-nitrobutyl)azetidin-3-ol

Table 1. Representative MEK Inhibitors		
Cmpd No.	Structure	Name
302	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3-(2-aminopyrimidin-4-yl)-1-({3,4-difluoro-2-((2-fluoro-4-iodophenyl)amino]phenyl)carbonyl)aze tidin-3-ol
303	OH CI	1-{(7- (4-bromo-2- chloropheny))amino]-8- chloromindazo[1,2-a]pyridin-6- y]) carbonyl)-3-piperidin-2-ylazetidin-3- ol
304		1-({8-chloro-7-{(2-fluoro-4- iodopheny))amino]imidazo[1,2- a]pyridin-6-yl) carbony) 3-i(25)- piperidin-2-yl]azetidin-3-ol
305		1-{{7-{(4-bromo-2- chlorophenyl)amino]-8- chloromidazo[1,2-a]pyridin-6- yl) carbonyl)-3-{(237-piperidin-2- yl]azetidin-3-ol

Table 1. Representative MEK Inhibitors		
Cmpd No.	Structure	Name
306		1{{4-fluoro-5-[(2-fluoro-4- iodopheny)amino}-1-methyl-1 <i>H</i> - benzimidazol-6-yl]carbonyl)-3- [(25)-piperidin-2-yl]azzitidin-3-ol
307	Br F N=	3-[(15)-1-aminocthyl]-1-([5-[(4- bromo-2-chloropheny)]amino]-4- fluoro-1-methyl-1 <i>H</i> -benzimidazol-6- yl]carbonyl]azetidin-3-ol
308	G H HN-	1-{(5-[(4-bromo-2- chlorophenyl)amino]-4-fluoro-1- methyl-1 H-benzimidazol-6- yl) carbonyl-3-[(1,5)-1 (methylamino)ethyl Jazetidin-3-ol
309	B F N	4-[(4-bromo-2-fluorophenyl)amino]- 3-fluoro-5-({3-hydroxy-3-[(25)- piperidin-2-yl]azetidin-1- yl] carbonyl)pyridin-2(1 <i>H</i> )-one
310	F HNOH	4-[(2-fluoro-4-iodophenyl)amino]-5- ((3-hydroxy-3-[(25-piperidin-2- yl]azztidin-1-yl]carbonyl)-1- methylpyridin-2(1 <i>H</i> )-one

Table 1. Representative MEK Inhibitors		
Cmpd No.	Structure	Name
311	CI HAN OH	4-{(2-fluoro-4-iodophenyl)amino}-5- ({3-hydroxy-3-{(2S)-piperidin-2- yl]azetdin-1-yl-arbonyl)-1- methylpyridin-2(1 <i>H</i> )-one
312	OHO And	(a)-1-({3,4-difluoro-2-[(2-fluoro-4-iodopheny))amino]phenyl)carbonyl)-3-[((rans)-2-hydroxyeyclohexyl]azetidin-3-ol
313	OHO HO F	(3,4-difluoro-2-(2-fluoro-4- iodophenylamino)phenyl)(3-hydroxy-3- ((18,2S)-2-hydroxycyclohexyl)azetidin- l-yl)methanone
314	OHO WILNO HI	(3,4-difluoro-2-(2-fluoro-4- iodophenylamino)phenyl(3-hydroxy-3- ((15,2R)-2-hydroxycyclohexyl)azetidin 1-yl)methanone

	Table 1. Representative MEK Inhibitors		
Cmpd No.	Structure	Name	
315	F N OH N	4-[(2-fluoro-4-iodophenyl)amino]-5- ((3-hydroxy-3-{(1:S)-1- (methylamino)propyl]azetidin-1- yl)carbonyl)-1-methylpyridin-2(1H)- one	
316	OHO HANDER AND	(±)-1-({3,4-difluoro-2-[(2-fluoro-4- iodophenyl)amino]phenyl)-3- (cis)-2-hydroxycyclohexyl]azetidin-3- ol	
317	OHO F F	(3,4-difluoro-2-(2-fluoro-4- iodophenylamino)phenyl)(3-hydroxy-3- ((15,2R)-2-hydroxycyclohexyl)azetidin- l-yl)methanone	
318	OHO H H F F	(3,4-difluoro-2-(2-fluoro-4- iodophenylamino)phenyl(3-hydroxy-3- ((1R,2S)-2-hydroxycyclohexyl)azetidin 1-yl)methanone	

Table 1. Representative MEK Inhibitors		
Cmpd No.	Structure	Name
319	P N OH N	5-{(3-[(1S)-1- (dimethylamino)ethyl]-3- hydroxyazetidin-1-yl)carbonyl)-4- [(2-fluor-4-idophenyl)amino]-1- methylpyridin-2(1H)-one
320	S NON OH H	4-[(2-fluoro-4-iodophenyl)amino]-5- ((3-hydroxy-3- ([methylamino)methyl]azetidin-1- yl]carbonyl)-1-methylpyridin-2(1 <i>H</i> )- one
321	HN OH N	5-{[3-(1 <i>H</i> -benzimidazol-2-yl)-3- hydroxyazetidin-1-yl[carbonyl)-4- [(4-brone-2-fluorophenyl)amino]-1- methylpyridin-2(1 <i>H</i> )-one
322	F HN OH	4-[(4-bromo-2-fluorophenyl)amino] {[3-hydroxy-3-(1-methyl-1]H-benzimidazol-2-yl)azetidin-1- yl]carbonyl]-1-methylpyridin-2(1H)-one
323	Br. On OH H	4-[(4-bromo-2-fluorophenyl)amino]- 5-((3-hydroxy-3-[(25)-pyrrolidin-2- yl]azetidin-1-yl);carbonyl)-1 methylpyridin-2(1 <i>H</i> )-one

Table 1. Representative MEK Inhibitors		
Cmpd No.	Structure	Name
324		1-{(3-fluoro-2-{(2-fluoro-4- iodophenyl)amino]phenyl] carbonyl) -3-{(25)-piperidin-2-yl]azetidin-3-ol
325		I-{(4-fluoro-2-(2-fluoro-4- iodopheny!)amino]pheny!)carbony!) -3-[(25)-piperidin-2-y!]azetidin-3-ol
326	10 N N N N N N N N N N N N N N N N N N N	1-((6-[(4-bromo-2- chloropheny)]amino]-7-fluoro-3- methyl-1,2-benzisoxazol-5- yl) earbonyl-3-((2S)-piperidin-2- yl]azetidin-3-ol
327	OH HIN	1-({3,4-difluoro-2-{(2-fluoro-4- iodophenyl)amino]phenyl}carbonyl) -3-(6-methylpiperidin-2-yl)azetidin- 3-ol
328	OH -NH HN	1-{(3,4-difluoro-2-{(2-fluoro-4- iodophenyl)amino]phenyl}-carbonyl) -3-piperazin-2-yłazetidin-3-ol

	Table 1. Representative MEK Inhibitors		
Cmpd No.	Structure	Name	
329	HN OH	5-[(2-fluoro-4-iodophenyl)amino]-6- ({3-hydroxy-3-[(2S)-piperidin-2- yl]azetidin-1-yl}-arbonyl)-2- methylpyridazin-3(2H)-one	
330	H CI	5-[(4-bromo-2-chlorophenyl)amino]-6-([3-hydroxy-3-[(2:5)-piperidin-2-yl]azztidin-1-yl]-carbonyl-2-methylpyridazin-3(2 <i>H</i> )-one	
331	OF THE STATE OF TH	5-[(4-bromo-2-chlorophenyl)amino]- 4-fluoro-6-(3-hydroxy-3-[(25)- pyrrolidin-2-yl)azetidn-1- yl)azetonyly-2-methylpyridazin- 3(2H)-one	
332	CI HN N N N N N N N N N N N N N N N N N N	5-[(4-bromo-2-chlorophenyl)amino]- 4-fluoro-6-((3-hydroxy-3-[(2R)- pyrrolidin-2-y]lazetidin-1- yl)carbonyl)-2-methylpyridazin- 3(2H)-one	
333	N OH	6-({3-{(15)-1-aminoethyl]-3- hydroxyazetidin-1-yl) carbonyl)-5- [(2-fluor-diodphenyl)amino]-2- methylpyridazin-3(2H)-one	

Table 1. Representative MEK Inhibitors		
Cmpd No.	Structure	Name
334	Br C1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -	6-({3-[(1.5)-1-aminoethyl]-3- hydroxyazetidin-1-yl)carbonyl)-5- [(4-brone-2-chlorophenyl)amino]-2- methylpyridazin-3(2 <i>H</i> )-one
335	Br OH	5-[(4-brome-2-chlorophenyl)amino]- 6-[[3-(1.5)-1-[(3.R.45)-3.4- dihydroxyeyclopentyl]amino]ethyl)- 3-hydroxyazetidin-1-yl[carbonyl]-2- methylpyridazin-3(2H)-one
336	oh Oh Oh Oh H	5-[(4-bromo-2-fluorophenyl)amino]- 6-[(3-hydroxy-3- hydroxy-2- methylcyclopentyl)amino]propyl]az etidin-1-yl)carbonyl]-2- methylpyridazin-3(2H)-one
337	Br OH NH2	6-{(3-[(1.5)-1-aminopropyl]-3- hydroxyazetidin-1-yl)carbonyl)-5- [(4-brono-2-fluorophenyl)amino]-2- methylpyridazin-3(2 <i>H</i> )-one
338	HN OH N	6-{[3-(1H-benzimidazol-2-yl)-3- hydroxyazetidin-1-yl]carbonyl}-5- [(2-fluor-d-idophenyl)amino}-2- methylpyridazin-3(2H)-one

Table 1. Representative MEK Inhibitors		
Cmpd No.	Structure	Name
339	F H O N OH N N	5-[(2:fluoro-4-iodophenyl)amino]-6- {[3-hydroxy-3-(1-methyl-1 <i>H</i> -benzimidazol-2-yl)azetidin-1- yl]carbonyl}-2-methylpyridazin- 3(2 <i>H</i> )-one
340	F H OHH	I-({2-fluoro-3-[(2-fluoro-4- iodophenyl)aminolpyridin-4- yl)carbonyl)-3-(2-S)-piperidin-2- yl]azetidin-3-ol
341	N OHH	1-{{3-{(2-fluoro-4- iodophenyl)amino pyridin-4- yl) earbonyl)-3-{(2S)-piperidin-2- yl]azetidin-3-ol
342	L H OH H	1-{(3-[(2-fluoro-4- iodopheny)]amino]-1-oxidopyridin- 4-y] earbony)3-1{(25)-piperidin-2- y]]azetidin-3-ol
343	BI OH H	1-({2-fluoro-3-[(2-fluoro-4- bromopheny)Jamino[pyridin-4- y)]carbony])-3-[(2-5)-piperidin-2- yl]azetidin-3-ol

Table 1. Representative MEK Inhibitors		
Cmpd No.	Structure	Name
344	NH <sub>2</sub>	3-[(1S)-1-aminopropyl]-1-{(3-[(2-fluoro-4-iodophenyl)amino]pyridin-4-yl) carbonyl)azetidin-3-ol
345	HO H	1-{{3-{(2-fluoro-4- iodopheny)Jamino]pyridin-4- yl)carbony)3-{{1(5)-1- (methylamino)propyl]azetidin-3-ol
346	OH OH	(1R,25)-4-{{\ \ \}\}-1-{\ \ \ \ \}-1-\{\ \ \ \}-1-\\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
347	Br F F N'N	1-{{7-[(4-bromo-2- chlorophenyl)amino]-8-fluoro-4- methylcinolin-6-yl) carbonyl)-3- [(2S)-piperidin-2-yl]azetidin-3-ol
348	Br F N's's	1-({7-[(4-bromo-2- fluorophenyl)amino]-8-fluoro-4- methyl:innolim-6-yl]-arbonyl)-3- [(2S)-piperidin-2-yl]azetidin-3-ol

Table 1. Representative MEK Inhibitors		
Cmpd No.	Structure	Name
349	Br NH2	3-[(15)-1-aminoethyl]-1-({7-[(4- bromo-2- fluorophenyl)amino]cinnolin-6- yl]carbonyl)azetidin-3-ol
350	Br. N. N.	1-{(7-{(4-bromo-2-fluorophenyl)amino]cinnolin-6- yl}carbonyl)-3-{(1:5)-1-{(2-hydroxy- 2- methylcyclopentyl)amino]ethyl}azeti din-3-ol
351	OH N	1-{(7-{(4-bromo-2- fluoropheny)]amino]cinnolin-6- yl)carbony)-3-{(13)-1- (dimethylamino)ethyl]azetidin-3-ol
352	OH NH <sub>2</sub>	3-[(15)-1-aminoethyl)-1-({5-[(2-fluoro-4-iodophenyl)amino}-1H-1,2,3-benzotriazol-6-yl}carbonyl)azetidin-3-ol
353	OH N	3-[(15)-1-(dimethylamino)ethyl]-1- ((5-((2-fluoro-4-iodopheny)amino)- 1-methyl-11-1,3-benzotriazol-6- yl)carbonyl)azetidin-3-ol

	Table 1. Representative MEK	Inhibitors
Cmpd No.	Structure	Name
354	OH	1-{{5-{(2-fluoro-4- iodopheny)\amino]-1 <i>H</i> -1,2,3- benzotriazol-6-yl carbonyl)-3-{(2-5)- piperidin-2-yl azetidin-3-ol
355	OH THE PROPERTY OF THE PROPERT	1-([5-[(2-fluoro-4- iodopheny))amino]-1-methyl-1 <i>H</i> - 1,2,3-benzoirazol-6-yl) carbonyl)-3- [(2S)-piperidin-2-yl]azetidin-3-ol
356	OH HAND	1-({5-[(2-fluoro-4- iodophenyl)amino]-1H-1,2,3- benzotriazol-6-y] carbonyl)-3-((1S)- 1-{(2-hydroxy-2- methylcyclopentyl)amino]ethyl} azeti din-3-ol
357	P NH NH2	3-[(15)-1-aminocthyl]-1-((4-fluoro- 5-[(2-fluoro-4-iodophenyl)amino]- 1/4-1,2,3-benzoriazol-6- yl] carbonyl)azetidin-3-ol
358	ON HN	1-{{4-fluoro-5-{(2-fluoro-4- iodophenyl)amino}-]/H-1,2,3- benzorizach6-yl}carbonyl>-3-{(2S)- piperidin-2-yl]azetidin-3-ol

Table 1. Representative MEK Inhibitors		
Cmpd No.	Structure	Name
359	P HN NH2	5-{{3-{{1-{1.9}-1-aminoethyl}-3-hydroxyazetidin-1-y}} carbonyl)-6-{{2-!uoro-4-iodophenyl)amino]pyrimidin-2(1/f)-one
360	OH THE THE THE THE THE THE THE THE THE TH	6-[(2-fluoro-4-iodophenyl)amino]-5- ((3-hydroxy-3-[(25)-piperidin-2- yl)azetidin-1-yl) carbonyl)pyrimidin- 2(1H)-one
361	OH	4-{(2-fluoro-4-iodophenyl)amino]-5- ((3-hydroxy-3-{(25)-piperidin-2- yl]azzidin-1-yl) carbonyl)pyrimidin- 2(1H)-one
362	ON NH <sub>2</sub>	5-{(3-{(1/5)-1-aminoethyl}-3- hydroxyazztidin-1-yl} carbonyl)-4- [(2-fluoro-4- iodophenyl)amino]pyrimidin-2(1 <i>H</i> )- one

## OTHER REPRESENTATIVE COMPOUNDS

	Table 2a. Representative AKT Inhibitors	
Cmpd No.	Name	
1	3-(azetidin-3-ylidenemethyl)-4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H- pyrazolo[3,4-d]pyrimidine	
2	4-[4-(3-chloro-2-methylphenyl)piperazin-1-yl]-3-(3-fluoropyridin-4-yl)-1H-pyrazolo[3,4-d]pyrimidine	
3	4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-(3-chloropyridin-4-yl)-1H-pyrazolo[3,4-d]pyrimidine	
4	2-{{5-chloro-3-[4-(3-ethyl-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-2- methylphenyl}oxy)-N,N-dimethylethanamine	

Table 2a. Representative AKT Inhibitors	
Cmpd No.	Name
5	2-({5-chloro-3-[4-(3-ethyl-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-2- methylphenyl}oxy)-N,N-diethylethanamine
6	4-(4-(5-chloro-2-methyl-3-[(2-pyrrolidin-1-ylethyl)oxy]phenyl)piperazin-1-yl)-3-ethyl-1H- pyrazolo[3,4-d]pyrimidine
7	4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-piperazin-1-yl-1H-pyrazolo[3,4-d]pyrimidine
8	N-(3-{4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidin-3- yy}prop-2-yn-1-yl)acetamide
9	N,N-diethyl-2-({3-[4-(3-ethyl-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1- yl]phenyl}oxy)ethanamine
10	3-{3-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-5-chloro-2- methylphenyl}-N,N-diethylpropan-1-amine
11	3-bromo-4-{4-[5-chloro-2-methyl-3-(3-pyrrolidin-1-ylpropyl)phenyl]piperazin-1-yl}-1H- pyrazolo[3,4-d]pyrimidine
12	3-bromo-4-(4-(5-chloro-2-methyl-3-[(2-pyrrolidin-1-ylethyl)oxy]phenyl}piperazin-1-yl)- 1H-pyrazolo[3,4-d]pyrimidine
13	2-({3-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-5-chloro-2-methylphenyl}oxy)-N,N-diethylethanamine
14	4-[4-(5-chloro-2-methyl-3-{[2-(1-methylpiperidin-4-yl)ethyl]oxy}phenyl)piperazin-1-yl]-3- ethyl-1H-pyrazolo[3,4-d]pyrimidine
15	5-chloro-3-[4-(3-ethyl-1H-pyrazolo[3,4-d]pyrimidin-4-yl]piperazin-1-yl]-2-methyl-N-(2-pyrrolidin-1-ylethyl)aniline
16	4-(4-{5-chloro-2-methyl-3-[(2-morpholin-4-ylethyl)oxy]phenyl}piperazin-1-yl)-3-ethyl-1H- pyrazolo[3,4-d]pyrimidine
17	4-(4-{5-chloro-2-methyl-3-[(2-piperidin-1-ylethyl)oxy]phenyl}piperazin-1-yl)-3-ethyl-1H- pyrazolo[3,4-d]pyrimidine
18	3-bromo-4-(4-[5-chloro-2-methyl-3-(3-morpholin-4-ylpropyl)phenyl]piperazin-1-yl}-1H- pyrazolo[3,4-d]pyrimidine
19	3-bromo-4-(4-(5-chloro-2-methyl-3-[3-(4-methylpiperazin-1-yl)propyl]phenyl}piperazin-1- yl}-1H-pyrazolo[3,4-d]pyrimidine
20	3-bromo-4-(4-(5-chloro-2-methyl-3-[(2-piperidin-1-ylethyl)oxy]phenyl} piperazin-1-yl)-1H-pyrazolo[3,4-d]pyrimidine
21	3-bromo-4-(4-(5-chloro-2-methyl-3-[(2-morpholin-4-ylethyl)oxy]phenyl}piperazin-1-yl)- 
22	4-(4-[5-chloro-2-methyl-3-(3-morpholin-4-ylpropyl)phenyl]piperazin-1-yl}-3-ethyl-1H- pyrazolo[3,4-d]pyrimidine
23	N'-{5-chloro-3-[4-(3-ethyl-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-2- methylphenyl}-N,N-diethylethane-1,2-diamine
24	4-{4-[5-chloro-2-methyl-3-(3-piperidin-1-ylpropyl)phenyl]piperazin-1-yl}-3-ethyl-1H- pyrazolo[3,4-d]pyrimidine
25	4-{4-(5-chloro-3-{[2-(4-ethylpiperazin-1-yl)ethyl]oxy}-2-methylphenyl)piperazin-1-yl]-3-ethyl-1H-pyrazolo[3,4-d]pyrimidine
26	4-(4-(5-chloro-2-methyl-3-[(3-morpholin-4-ylpropyl)oxy]phenyl}piperazin-1-yl)-3-ethyl- 1H-pyrazolo[3,4-d]pyrimidine
27	3-bromo-4-(4-[5-chloro-2-methyl-3-(3-piperidin-1-ylpropyl)phenyl]piperazin-1-yl}-1H- pyrazolo[3,4-d]pyrimidine
28	N'-{3-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-5-chloro-2- methylphenyl}-N,N-diethylethane-1,2-diamine

	Table 2a. Representative AKT Inhibitors
Cmpd No.	Name
29	3-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-5-chloro-2-methyl-N-(2-pyrrolidin-1-ylethyl)aniline
30	4-[4-(5-chloro-2-methyl-3-{[2-(4-methylpiperazin-1-yl)ethyl]oxy}phenyl)piperazin-1-yl]-3-ethyl-1H-pyrazolo[3,4-d]pyrimidine
31	4-[4-(5-chloro-2-methyl-3-{{(1-methylpiperidin-4-yl)methyl]oxy}phenyl)piperazin-1-yl]-3- cthyl-1H-pyrazolo[3,4-d]pyrimidine
32	N,N-diethyl-2-({3-[4-(3-ethyl-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-2- methylphenyl}oxy)ethanamine
33	2-[(5-chloro-3-{4-[1-(1,1-dimethylethyl)-3-(trifluoromethyl)-1H-pyrazolo[3,4-d]pyrimidin- 4-yl]piperazin-1-yl}-2-methylphenyl)oxy]-N,N-diethylethanamine
34	2-[(5-chloro-2-methyl-3-{4-[3-(trifluoromethyl)-1H-pyrazolo[3,4-d]pyrimidin-4- yl]piperazin-1-yl}phenyl)oxy]-N,N-diethylethanamine
35	4-(4-{5-chloro-2-methyl-3-[(3-pyrrolidin-1-ylpropyl)oxy]phenyl}piperazin-1-yl)-3-ethyl- 1H-pyrazolo[3,4-d]pyrimidine
36	4-[4-(5-chloro-2-methyl-3-{[3-(4-methylpiperazin-1-yl)propyl]oxy}phenyl)piperazin-1-yl]- 3-ethyl-1H-pyrazolo[3,4-d]pyrimidine
37	3-bromo-4-(4-{5-chloro-2-methyl-3-[(3-piperidin-1-ylpropyl)oxy]phenyl}piperazin-1-yl)- 1H-pyrazolo[3,4-d]pyrimidine
38	3-bromo-4-(4-{5-chloro-2-methyl-3-[(3-morpholin-4-ylpropyl)oxy]phenyl}piperazin-1-yl)- lH-pyrazolo[3,4-d]pyrimidine
39	4-(4-{5-chloro-2-methyl-3-[(2-pyrrolidin-1-ylethyl)oxy]phenyl}piperazin-1-yl)-3- (trifluoromethyl)-1H-pyrazolo[3,4-d]pyrimidine
40	4-(4-{5-chloro-2-methyl-3-[(3-morpholin-4-ylpropyl)oxy]phenyl}piperazin-1-yl)-3- (trifluoromethyl)-1H-pyrazolo[3,4-d]pyrimidine
41	4-(4-{5-chloro-2-methyl-3-f(2-morpholin-4-ylethyl)oxy]phenyl}piperazin-1-yl)-3- (trifluoromethyl)-1H-pyrazolo[3,4-d]pyrimidine
42	4-(4-{5-chloro-2-methyl-3-[(3-piperidin-1-ylpropyl)oxy]phenyl}piperazin-1-yl)-3-ethyl-1H-pyrazolo[3,4-d]pyrimidine
43	4-[4-(5-chloro-3-{[3-(4-ethylpiperazin-1-yl]propyl]oxy}-2-methylphenyl)piperazin-1-yl]-3-ethyl-1H-pyrazolo[3,4-d]pyrimidine
44	5-chloro-2-methyl-3-[4-(1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-N-(2-pyrrolidin-1-ylethyl)aniline
45	5-chloro-2-methyl-3-[4-(3-methyl-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-N-(2-pyrrolidin-1-ylethyl)aniline
46	N'-(5-chloro-2-methyl-3-{4-[3-(trifluoromethyl)-1H-pyrazolo[3,4-d]pyrimidin-4- yl]piperazin-1-yl}phenyl)-N,N-dimethylethane-1,2-diamine
47	3-({5-chloro-3-[4-(3-ethyl-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-2- methylphenyl}oxy)-N,N-diethylpropan-1-amine
48	N'-(5-chloro-2-methyl-3-{4-[3-(trifluoromethyl)-1H-pyrazolo{3,4-d]pyrimidin-4- yl]piperazin-1-yl}phenyl)-N,N-diethylethane-1,2-diamine
49	5-chloro-2-methyl-N-(2-pyrrolidin-1-ylethyl)-3-{4-[3-(trifluoromethyl)-1H-pyrazolo[3,4-d]pyrimidin-4-yl]piperazin-1-yl}aniline
50	3-bromo-4-(4-(4-methyl-3-[(2-pyrrolidin-1-ylethyl)oxy]phenyl}piperazin-1-yl)-1H- pyrazolo[3,4-d]pyrimidine
51	4-(4-{4-methyl-3-{(2-pyrrolidin-1-ylethyl)oxy]phenyl}piperazin-1-yl)-1H-pyrazolo[3,4-d]pyrimidine
52	3-methyl-4-(4-(4-methyl-3-[(2-pyrrolidin-1-ylethyl)oxy]phenyl}piperazin-1-yl)-1H-pyrazolo[3,4-d]pyrimidine

	Table 2a. Representative AKT Inhibitors
Cmpd No.	Name
53	4-(4-(5-chloro-2-methyl-3-[(2-pyrrolidin-1-ylethyl)oxy]phenyl}piperazin-1-yl)-1H- pyrazolo[3,4-d]pyrimidine
54	4-(4-{5-chloro-2-methyl-3-[(2-pyrrolidin-1-ylethyl)oxy]phenyl}piperazin-1-yl)-3-methyl- 1H-pyrazolo[3,4-d]pyrimidine
55	4-(4-{5-chloro-2-methyl-3-[(2-piperidin-1-ylethyl)oxy]phenyl}piperazin-1-yl)-3- (trifluoromethyl)-1H-pyrazolo[3,4-d]pyrimidine
56	3-[(5-chloro-2-methyl-3-{4-{3-(trifluoromethyl)-1H-pyrazolo[3,4-d]pyrimidin-4- yl]piperazin-1-yl}phenyl)oxy]-N,N-diethylpropan-1-amine
57	5-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-2-methyl-N-(2-pyrrolidin-1-ylethyl)aniline
58	3-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-5-fluoro-2-methyl-N-(2-pyrrolidin-1-ylethyl)aniline
59	4-{4-{5-chloro-2-methyl-3-(3-pyrrolidin-1-ylpropyl)phenyl]piperazin-1-yl}-1H- pyrazolo[3,4-d]pyrimidine
60	3-bromo-4-{4-[5-fluoro-2-methyl-3-(3-pyrrolidin-1-ylpropyl)phenyl]piperazin-1-yl}-1H- pyrazolo[3,4-d]pyrimidine
61	4-{4-[5-chloro-2-methyl-3-(3-pyrrolidin-1-ylpropyl)phenyl]piperazin-1-yl}-3- (trifluoromethyl)-1H-pyrazolo[3,4-d]pyrimidine
62	4-(4-{5-chloro-2-methyl-3-[3-(4-methylpiperazin-1-yl)propyl]phenyl}piperazin-1-yl)-3-ethyl-1H-pyrazolo[3,4-d]pyrimidine
63	3-bromo-4-(4-pyridin-2-ylpiperazin-1-yl)-1H-pyrazolo[3,4-d]pyrimidine
64	3-bromo-4-[4-(2,4-dimethylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine
65	3-bromo-4-{4-[3-(methyloxy)phenyl]piperazin-1-yl}-1H-pyrazolo[3,4-d]pyrimidine
66	3-bromo-4-{4-[2-(methyloxy)phenyl]piperazin-1-yl}-1H-pyrazolo[3,4-d]pyrimidine
67	3-bromo-4-{4-[4-methyl-3-(3-pytrolidin-1-ylpropyl)phenyl]piperazin-1-yl}-1H-pyrazolo[3,4-d]pyrimidine
68	4-(4-{5-chloro-2-methyl-3-{(3-pyrrolidin-1-ylpropyl)oxy]phenyl}piperazin-1-yl)-3- (trifluoromethyl)-1H-pyrazolo[3,4-d]pyrlmidine
69	4-(4-{5-chloro-2-methyl-3-[(3-piperidin-1-ylpropyl)oxy]phenyl} piperazin-1-yl)-3- (trifluoromethyl)-1H-pyrazolo[3,4-d]pyrimidine
70	4-[4-(5-chloro-2-methyl-3-{[3-(4-methylpiperazin-1-yl)propyl]oxy}phenyl)piperazin-1-yl]-3-(trifluoromethyl)-1H-pyrazolo[3,4-d]pyrimidine
71	4-[4-(5-chloro-3-{[3-(4-ethylpipcrazin-1-yl)propyl]oxy}-2-methylphenyl)piperazin-1-yl]-3- (trifluoromethyl)-1H-pyrazolo[3,4-d]pyrimidine
72	3-bromo-4-[4-(5-chloro-2-methyl-3-{[2-(4-methylpiperazin-1-yl)ethyl]oxy}phenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine
73	4-[4-(5-chloro-2-methyl-3-{[2-(4-methylpiperazin-1-yl)ethyl]oxy}phenyl)piperazin-1-yl]-3-(trifluoromethyl)-1H-pyrazolo[3,4-d]pyrimidine
74	3-bromo-4-[4-(5-chloro-3-{[2-(4-ethylpiperazin-1-yl)ethyl]oxy}-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine
75	3-bromo-4-[4-(3,4-dichlorophenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine
76	3-bromo-4-[4-(3,4-difluorophenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine
77	3-bromo-4-[4-(2,4-dichlorophenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine
78	3-[4-(3-ethyl-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-5-fluoro-2-methyl-N-(2-pyrrolidin-1-ylethyl)aniline
79	5-fluoro-2-methyl-N-(2-pyrrolidin-1-ylethyl)-3-{4-[3-(trifluoromethyl)-1H-pyrazolo[3,4-d]pyrimidin-4-yl]piperazin-1-yl}aniline
80	4-{4-[3,5-bis(methyloxy)phenyl]piperazin-1-yl}-3-bromo-1H-pyrazolo[3,4-d]pyrimidine

	Table 2a. Representative AKT Inhibitors
Cmpd No.	Name
81	4-[4-(5-chloro-3-{[2-(4-ethylpiperazin-1-yl)ethyl]oxy}-2-methylphenyl)piperazin-1-yl}-3- (trifluoromethyl)-1H-pyrazolo[3,4-d]pyrimidine
82	N-{5-chloro-3-{4-(3-ethyl-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-2- methylphenyl}-N,N',N'-trimethylethane-1,2-diamine
83	3-{{3-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-5-chloro-2- methylphenyl}oxy)-N,N-diethylpropan-1-amine
84	3-bromo-4-(4-{5-chloro-2-methyl-3-[(3-pyrrolidin-1-ylpropyl)oxy]phenyl}piperazin-1-yl)- 1H-pyrazolo[3,4-d]pyrimidine
85	3-bromo-4-[4-(5-chloro-2-methyl-3-{[3-(4-methylpiperazin-1-yl)propyl]oxy}phenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine
86	3-bromo-4-[4-(5-chloro-3-{[3-(4-ethylpiperazin-1-yl)propyl]oxy}-2- methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine
87	3-(5-chloro-2-methyl-3-{4-[3-(trifluoromethyl)-1H-pyrazolo[3,4-d]pyrimidin-4-yl]piperazin-1-yl}phenyl)-N,N-diethylpropan-1-amine
88	3-bromo-4-[4-(5-chloro-2-methyl-3-{[(1-methylpiperidin-4-yl)methyl]oxy}phenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine
89	3-bromo-4-[4-(5-chloro-2-methyl-3-{[2-(1-methylpiperidin-4-yl)ethyl]oxy}phenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine
90	4-[4-(5-chloro-2-methyl-3-{[(1-methylpiperidin-4-yl)methyl]oxy}phenyl)piperazin-1-yl]-3-(trifluoromethyl)-1H-pyrazolo[3,4-d]pyrimidine
91	4-[4-(5-chloro-2-methyl-3-{[2-(1-methylpiperidin-4-yl)ethyl]oxy}phenyl)piperazin-1-yl]-3-(trifluoromethyl)-1H-pyrazolo[3,4-d]pyrimidine
92	4-(4-{5-chloro-2-methyl-3-{3-(4-methylpiperazin-1-yl)propyl]phenyl}piperazin-1-yl)-3- (trifluoromethyl)-1H-pyrazolo[3,4-d]pyrimidine
93	3-bromo-4-[4-(3-chloro-4-fluorophenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine
94	1-{4-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]phenyl}ethanone
95	3-bromo-4-[4-(2,5-dichlorophenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine
96	3-bromo-4-[4-(3,4-dimethylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine
97	3-bromo-4-[4-(4-nitrophenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine
98	3-ethyl-4-(4-phenylpiperazin-1-yl)-1H-pyrazolo[3,4-d]pyrimidine
99	3-ethyl-4-{4-[3-(methyloxy)phenyl]piperazin-1-yl}-1H-pyrazolo[3,4-d]pyrimidine
100	4-{4-[5-chloro-2-methyl-3-(3-pipcridin-1-ylpropyl)phenyl]piperazin-1-yl}-3- (trifluoromethyl)-1H-pyrazolo[3,4-d]pyrimidine
101	4-[4-(3,6-dimethylpyrazin-2-yl)piperazin-1-yl]-3-ethyl-1H-pyrazolo[3,4-d]pyrimidine
102	1-[4-(3-ethyl-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]isoquinoline
103	3-bromo-4-[4-(2,6-dimethylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine
104	3-bromo-4-{4-[4-(ethyloxy)phenyl]piperazin-1-yl}-1H-pyrazolo[3,4-d]pyrimidine
105	3-bromo-4-[4-(2-ethylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine
106	4-{4-[2,4-bis(methyloxy)phenyl]piperazin-1-yl}-3-bromo-1H-pyrazolo[3,4-d]pyrimidine
107	3-bromo-4-(4-pyrazin-2-ylpiperazin-1-yl)-1H-pyrazolo[3,4-d]pyrimidine
108	3-bromo-4-(4-pyrimidin-2-ylpiperazin-1-yl)-1H-pyrazolo[3,4-d]pyrimidine
109	4-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-2- (trifluoromethyl)quinoline
110	3-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]pyrazine-2-carbonitrile
111	4-[4-(4,6-dimethylpyrimidin-2-yl)piperazin-1-yl]-3-ethyl-1H-pyrazolo[3,4-d]pyrimidine
112	ethyl 4-[4-(3-ethyl-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-2- (trifluoromethyl)pyrimidine-5-carboxylate

	Table 2a. Representative AKT Inhibitors
Cmpd	
No.	Name
113	4-{4-[3-chloro-5-(methyloxy)phenyl]piperazin-1-yl}-3-ethyl-1H-pyrazolo[3,4-d]pyrimidine
114	4-[4-(3-bromo-2-chloro-5-fluorophenyl)piperazin-1-yl]-3-ethyl-1H-pyrazolo[3,4-d]pyrimidine
115	2-[4-(3-ethyl-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]pyridine-3-carboxamide
116	3-ethyl-4-{4-[4-(trifluoromethyl)pyridin-2-yl]piperazin-1-yl}-1H-pyrazolo[3,4-d]pyrimidine
117	3-bromo-4-{4-{4-(trifluoromethyl)pyridin-2-yl]piperazin-1-yl}-1H-pyrazolo[3,4-d]pyrimidine
118	3-bromo-4-{4-[4-(trifluoromethyl)pyrimidin-2-yl]piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine
119	2-({3-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl]piperazin-1-yl]pyrazin-2-yl}oxy)- N,N-dimethylethanamine
120	4-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-2-methylquinoline
121	3-bromo-4-[4-(2-nitrophenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine
122	2-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]benzonitrile
123	4-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]benzonitrile
124	3-bromo-4-{4-[4-(trifluoromethyl)phenyl]piperazin-1-yl}-1H-pyrazolo[3,4-d]pyrimidine
125	3-bromo-4-(4-{4-[(phenylmethyl)oxy]phenyl}piperazin-1-yl)-1H-pyrazolo[3,4-d]pyrimidine
126	4-{4-[5-chloro-2-methyl-3-(methyloxy)phenyl]piperazin-1-yl}-3-ethyl-1H-pyrazolo[3,4-d]pyrimidine
127	2-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]pyridine-3-carbonitrile
128	3-bromo-4-[4-(3,5-dichlorophenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine
129	3-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-2-chloro-5-fluoro-N-(2-pyrrolidin-1-ylethyl)aniline
130	2-chloro-3-[4-(3-ethyl-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-5-fluoro-N-(2-pyrrolidin-1-ylethyl)aniline
131	3-bromo-4-[4-(2,5-difluorophenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine
, 132	4-[4-(2,5-difluorophenyl)piperazin-1-yl]-3-ethyl-1H-pyrazolo[3,4-d]pyrimidine
133	3-bromo-4-{4-[3-(methyloxy)pyrazin-2-yl]piperazin-1-yl}-1H-pyrazolo[3,4-d]pyrimidine
134	3-bromo-4-[4-(3-chlorophenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine
135	3-bromo-4-{4-[3-(trifluoromethyl)pyridin-2-yl]piperazin-1-yl}-1H-pyrazolo[3,4-d]pyrimidine
136	3-bromo-4-{4-[3-chloro-5-(trifluoromethyl)pyridin-2-yl]piperazin-1-yl}-1H-pyrazolo[3,4-d]pyrimidine
137	4-(4-{5-chloro-2-methyl-3-[(2-pyrrolidin-1-ylethyl)oxy]phenyl}piperazin-1-yl)-3-(1-methylethyl)-1H-pyrazolo[3,4-d]pyrimidine
138	5-chloro-2-methyl-3-{4-[3-(1-methylethyl)-1H-pyrazolo[3,4-d]pyrimidin-4-yl]piperazin-1- yl}-N-(2-pyrrolidin-1-ylethyl)aniline
139	2-({3-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl]piperazin-1-yl]phenyl}oxy)-N- ethylacetamide
140	2-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl]piperazin-1-yl]-N,N-diethylpyrimidin-4- amine
141	3-bromo-4-[4-(3-{[(3-methylphenyl)methyl]oxy}phenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine
142	3-bromo-4-(4-{3-[(2-piperidin-1-ylethyl)oxy]phenyl}piperazin-1-yl)-1H-pyrazolo(3,4-d)pyrimidine
143	3-bromo-4-[4-(4-furan-2-ylpyrimidin-2-yl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine

Table 2a. Representative AKT Inhibitors	
Cmpd	Name
No.	
144	6-{2-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]pyrimidin-4-yl}-2H- 1,4-benzoxazin-3(4H)-one
145	3-ethyl-4-{4-[2-methyl-3-(methyloxy)phenyl]piperazin-1-yl}-1H-pyrazolo[3,4-d]pyrimidine
146	N'-{5-chloro-3-[4-(3-ethyl-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-2- methylphenyl}-N-methyl-N-(1-methylethyl)ethane-1,2-diamine
147	N'-{5-chloro-3-[4-(3-ethyl-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-2- methylphenyl}-N-ethyl-N-methylethane-1,2-diamine
148	N'-{3-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-5-chloro-2- methylphenyl}-N,N-dimethylethane-1,2-diamine
149	3-({6-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-2-chloro-5- methylpyrimidin-4-yl}oxy)-N,N-diethylpropan-1-amine
150	3-bromo-4-[4-(2,3-dichlorophenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine
151	3-bromo-4-{4-[2-(trifluoromethyl)phenyl]piperazin-1-yl}-1H-pyrazolo[3,4-d]pyrimidine
152	3-bromo-4-(4-phenylpiperazin-1-yl)-1H-pyrazolo[3,4-d]pyrimidine
153	3-bromo-4-[4-(4-fluorophenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine
154	3-bromo-4-[4-(4-chlorophenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine
155	3-bromo-4-{4-[3-(trifluoromethyl)phenyl]piperazin-1-yl}-1H-pyrazolo[3,4-d]pyrimidine
156	4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidin-6-amine
157	3-bromo-4-[4-(4-bromophenyl)piperazin-1-yl]-1H-pyrazoto[3,4-d]pyrimidine
158	3-bromo-4-[3-methyl-4-(3-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine
159	4-[4-(3-bromo-5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidin-6- amine
160	4-(4-{5-chloro-2-methyl-3-{(2-pytrolidin-1-ylethyl)oxy]phenyl}piperazin-1-yl)-3- cyclopropyl-1H-pytrazolo[3,4-d]pyrimidine
161	5-chloro-3-[4-(3-cyclopropyl-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-2-methyl- N-(2-pyrrolidin-1-ylethyl)aniline
162	5-chloro-2-methyl-3-{4-[3-(2-methylpropyl)-1H-pyrazolo[3,4-d]pyrimidin-4-yl]piperazin-1-yl}-N-(2-pyrrolidin-1-ylethyl)aniline
163	4-(4-{5-chloro-2-methyl-3-[(2-pyrrolidin-1-ylethyl)oxy]phenyl}piperazin-1-yl)-3-(2- methylpropyl)-1H-pyrazolo[3,4-d]pyrimidine
164	3-bromo-4-[(3S)-4-(5-chloro-2-methylphenyl)-3-methylpiperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine
165	5-bromo-3-[4-(3-ethyl-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-2-methylaniline
166	2-({3-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]phenyl} oxy)-N- cyclopropylacetamide
167	3-bromo-4-(4-{3-[(2-piperidin-1-ylethyl)oxy]pyrazin-2-yl}piperazin-1-yl)-1H-pyrazolo[3,4-d]pyrimidine
168	4-[4-(3-ethyl-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-6,7- bis(methyloxy)quinazoline
169	2-({3-chloro-5-[4-(3-ethyl-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]phenyl}oxy)- N,N-diethylethanamine
170	4-{4-[2-chloro-5-(trifluoromethyl)phenyl]piperazin-1-yl}-3-ethyl-1H-pyrazolo[3,4-d]pyrimidine
171	3-[4-(3-ethyl-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-2-methyl-5-[(2-methylpropyl)oxy]-N-(2-pyrrolidin-1-ylethyl)aniline
172	3-{{4-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-6-chloro-5- methylpyrimidin-2-yl}oxy)-N,N-diethylpropan-1-amine

	Table 2a. Representative AKT Inhibitors	
Cmpd	Name	
No.		
173	3-[4-(3-ethyl-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-2-methyl-5- [(phenylmethyl)oxy]-N-(2-pyrrolidin-1-ylethyl)aniline	
174	3-bromo-4-[(3R)-4-(5-chloro-2-methylphenyl)-3-methylpiperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine	
175	3-[(2S)-4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)-2-methylpiperazin-1-yl]-4-methyl- N-phenylbenzamide	
176	3-[(2S)-4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)-2-methylpiperazin-1-yl]-4-methyl- N-(phenylmethyl)benzamide	
177	methyl 3-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-4-methylbenzoate	
178	3-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-4-methylbenzoic acid	
179	(2E)-3-(4-{4-[5-chloro-2-methyl-3-(3-pyrrolidin-1-ylpropyl)phenyl]piperazin-1-yl}-1H- pyrazolo[3,4-d]pyrimidin-3-yl)prop-2-enoic acid	
180	3-(4-{4-[5-chloro-2-methyl-3-(3-pyrrolidin-1-ylpropyl)phenyl]piperazin-1-yl}-1H- pyrazolo[3,4-d]pyrimidin-3-yl)prop-2-yn-1-ol	
181	4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)-1-(5-chloro-2-methylphenyl)piperazin-2-one	
182	3-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-2-methyl-5-[(2-methylpropyl)oxyl-N-(2-pyrrolidin-1-ylethyl)aniline	
183	N'-{3-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl}-2-methyl-5-[(2-methylpropyl)oxy]phenyl}-N,N-diethylethane-1,2-diamine	
184	methyl 3-bromo-5-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-4- methylbenzoate	
185	3-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl]piperazin-1-yl]-4-methyl-N-phenylbenzamide	
186	3-14-(3-bromo-1H-pyrazolo[3.4-d]pyrimidin-4-yl)piperazin-1-yl]-N,4-dimethylbenzamide	
187	2-({3-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]phenyl}oxy)-N,N-diethylethanamine	
188	methyl 3-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-4-methyl-5-[(2-pyrrolidin-1-ylethyl)amino]benzoate	
189	3-bromo-5-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-4-methyl-N- phenylbenzamide	
190	3-bromo-5-[4-(3-ethyl-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-4-methyl-N-phenylbenzamide	
191	N"-{3-{4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-5-chloro-2-methylphenyl}-N-methyl-N-(1-methylethyl)ethane-1,2-diamine	
192	3-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-4-methyl-N-phenyl-5-[(2-pyrrolidin-1-ylethyl)amino]benzamide	
193	N"-{3-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-2-methyl-5-[(2-methylpropyl)oxy]phenyl}-N,N-dimethylethane-1,2-diamine	
194	3-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-N,N,4-trimethylbenzamide	
195	3-[4-(3-chloro-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-4-methyl-N-(2-methylpropyl)benzamide	
196	3-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-N,N,4-trimethyl-5-[(2-pyrrolidin-1-ylethyl)amino]benzamide	
197	3-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)-2-oxopiperazin-1-yl]-4-methyl-N-phenylbenzamide	
198	3-[(2R)-4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)-2-(hydroxymethyl)piperazin-1-yl]-4-methyl-N-phenylbenzamide	
199	3-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-2-methyl-5-(pyrrolidin-1-ylcarbonyl)-N-(2-pyrrolidin-1-ylethyl)aniline	

Table 2a. Representative AKT Inhibitors	
Cmpd No.	Name
200	3-[4-(3-bromo-IH-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-N,4-dimethyl-5-[(2- pyrrolidin-1-ylethyl)amino]benzamide
201	3-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-N-(4-chlorophenyl)-4- methyl-5-[(2-pyrrolidin-1-ylethyl)amino]benzamide
202	3-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-N-(2-chlorophenyl)-4- methyl-5-[(2-pyrrolidin-1-ylethyl)amino]benzamide
203	3-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-5- [(cyclopropylmethyl)oxy]-2-methyl-N-(2-pyrrolidin-1-ylethyl)aniline
204	3-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-2-methyl-5-[(3-methylbutyl)oxy]-N-(2-pyrrolidin-1-ylethyl)aniline
205	3-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-5-[(2-ethylbutyl)oxy]-2-methyl-N-(2-pyrrolidin-1-ylethyl)aniline
206	3-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-5-(butyloxy)-2-methyl-N-(2-pyrrolidin-1-ylethyl)aniline
207	3-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-4-methyl-N-(1-
208	3-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl}-N,4-dimethyl-N-(1-methylethyl)-5-[(2-pyrrolidin-1-ylethyl)amino]benzamide
209	3-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-5-
210	3-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-5-(ethyloxy)-2-methyl-N-
211	3-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-y])piperazin-1-yl]-N-[2-
212	3-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-N-(1,1-dimethylethyl)-4-
213	3-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-4-methyl-N-pyridin-3-yl-
214	3-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-5-[(2-fluoro-2-methylpropyl)oxyl-2-methyl-N-(2-pyrrolidin-1-ylethyl)aniline
215	3-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-3- [f(cyclohexylmethyl)oxyl-2-methyl-N-(2-pyrrolidin-1-ylethyl)anlline
216	3-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-5-
217	3-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-N-ethyl-4-methyl-3-[(2-
218	3-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-2-methyl-5-[(1-
219	3-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-5-[(2,2-di-eshyl-ponyl)pyyl-2-methyl-N-(2-pyrrolidin-1-ylethyl)aniline
220	3-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-2-methyl-N-(2-pyrrolidin  -ylethyl)-5-[(tetrahydrofuran-2-ylmethyl)oxy]aniline
221	3-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-2-methyl-5-{[2-
222	3-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-2-methyl-3-(propyloxy)- N-(2-pyrrolidin-1-ylethyl)aniline
223	3-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-5-{[2- (dimethylamino)ethyl]amino}-4-methyl-N-phenylbenzamide

	Table 2a. Representative AKT Inhibitors
Cmpd No.	Name
224	N'-{3-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-5-[(2-fluoro-2-methylpropyl)oxy]-2-methylphenyl}-N,N-dimethylethane-1,2-diamine
225	3-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-5-{[2- (dimethylamino)ethyl]amino}-4-methyl-N-(1-methylethyl)benzamide
226	1-{3-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-4-methyl-5-[(2-pyrrolidin-1-ylethyl)amino]phenyl}pentan-1-one
227	N'-(3-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-5-{[2,3-difluoro-2- (fluoromethyl)propyl]oxy}-2-methylphenyl)-N,N-dimethylethane-1,2-diamine
228	3-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-5-{[2,3-difluoro-2- (fluoromethyl)propyl]oxy}-2-methyl-N-(2-pyrrolidin-1-ylethyl)aniline
229	5-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-4-methyl-N-(2-pyrrolidin-1-ylethyl)biphenyl-3-amine
230	1-(3-{5-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)plperazin-1-yl]-4-methylbiphenyl-3-yl}propyl)pyridinium
231	3-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-2-methyl-N-(2-pyrrolidin-1-ylethyl)-5-(1,3-thiazol-2-yl)aniline
232	3-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-4-methyl-5-[(2-pyrrolidin-1-ylethyl)amino]benzoic acid
233	3-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-2-methyl-5- (phenylethynyl)-N-(2-pyrrolidin-1-ylethyl)aniline
234	{3-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-4-methyl-5-[(2-pyrrolidin-1-ylethyl)amino]phenyl}(phenyl)methanone
235	3-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-5-ethynyl-2-methyl-N-(2-pyrrolidin-1-ylethyl)aniline
236	3-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-5-(3,3-dimethylbut-1-yn-1-yl)-2-methyl-N-(2-pyrrolidin-1-ylethyl)aniline
237	3-bromo-4-{4-[5-{[2,3-difluoro-2-(fluoromethyl)propyl]oxy}-2-methyl-3-(3-pyrrolidin-1-ylpropyl)phenyl]piperazin-1-yl}-1H-pyrazolo[3,4-d]pyrimidine
238	3-bromo-4-{4-[2-methyl-5-[(2-methylpropyl)oxy]-3-(3-pyrrolidin-1-ylpropyl)phenyl]piperazin-1-yl}-1H-pyrazolo[3,4-d]pyrimidine
239	3-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-2-methyl-5-(3-phenyl-1,2,4-oxadiazol-5-yl)-N-(2-pyrrolidin-1-ylethyl)aniline
240	3-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-2-methyl-5-(3-methyl-1,2,4-oxadiazol-5-yl)-N-(2-pyrrolidin-1-ylethyl)aniline
241	1-{3-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-4-methyl-5-[(2-pyrrolidin-1-ylethyl)amino]phenyl}propan-1-one
242	3-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl]piperazin-1-yl]-5-(3,3-dimethylbutyl)-2-methyl-N-(2-pyrrolidin-1-ylethyl)aniline
243	3-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-5-ethyl-2-methyl-N-(2-pyrrolidin-1-ylethyl)aniline
244	3-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-2-methyl-N-(2-pyrrolidin-1-ylethyl)-5-[2-(trimethylsilyl)ethyl]aniline
245	3-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-2-methyl-5-(2-phenylethyl)-N-(2-pyrrolidin-1-ylethyl)aniline
246	1-{3-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-4-methyl-5-[(2-pyrrolidin-1-ylethyl)amino]phenyl}butan-1-one
247	3-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-N,4-dimethyl-N- (methyloxy)-5-[(2-pyrrolidin-1-ylethyl)amino]benzamide

	Table 2a. Representative AKT Inhibitors	
Cmpd No.	Name	
248	3-bromo-4-[4-(3-bromo-5-{[2,3-difluoro-2-(fluoromethyl)propyl]oxy}-2- methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine	
249	4-[4-(3-bromo-5-{[2,3-difluoro-2-(fluoromethyl)propyl]oxy}-2-methylphenyl)piperazin-1- yl]-3-ethyl-1H-pyrazolo[3,4-d]pyrimidine	
250	1-{3-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-4-methyl-5-[(2-pyrrolidin-1-ylethyl)amino]phenyl}ethanone	
251	3-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl]piperazin-1-yl]-5-[(difluoromethyl)oxy]-2-methyl-N-(2-pyrrolidin-1-ylethyl)aniline	
252	3-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-5- [[[difluoromethyl]oxy]methyl]-2-methyl-N-(2-pyrrolidin-1-ylethyl)aniline	
253	3-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl]piperazin-1-yl]-2-methyl-5-(methyloxy)- N-(2-pyrrolidin-1-ylethyl)aniline	
254	5-{[2,3-difluoro-2-(fluoromethyl)propyl]oxy}-3-[4-(3-ethyl-1H-pyrazolo[3,4-d]pyrimidin-4- lyl)piperazin-1-yl]-2-methyl-N-(2-pyrrolidin-1-ylethyl)aniline	
255	2-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-3,5,6-trifluoro-N-(3-methylbutyl)pyridin-4-amine	
256	3-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-N- [(cyclopropylmethyl)oxy]-4-methyl-5-[(2-pyrrolidin-1-ylethyl)amino]benzamide	
257	3-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-2-methyl-5-(5-methyl- 1,2,4-oxadiazol-3-yl)-N-(2-pyrrolidin-1-ylethyl)aniline	
258	3-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-5-(ethylsulfonyl)-2- methyl-N-(2-pyrrolidin-1-ylethyl)aniline	
259	3-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-2-methyl-5- (methylsulfonyl)-N-(2-pyrrolidin-1-ylethyl)aniline	
260	1-{3-[4-(3-ethy]-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-4-methyl-5-[(2-pyrolidin-1-ylethyl)amino[phenyl]pentan-1-one	
261	3-bromo-4-[4-(5-{[2,3-difluoro-2-(fluoromethyl)propyl]oxy}-2-methylphenyl)piperazin-1- yl]-1H-pyrazolo[3,4-d]pyrimidine	
262	6-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-3,5-difluoro-N-4(3-	
263	3-bromo-5-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-N-(2-pyrrolidin- 1-ylethylaniline	
264	3-bromo-4-[4-(3',4',6-trifluoro-4-methylbiphenyl-3-yl)piperazin-1-yl]-1H-pyrazolo[3,4-dlpyrimidine	
265	3-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-5-chloro-N-(2-pyrrolidin-1-ylethyl)aniline	
266	{3-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-4-methyl-5-{(2-pyrrolidin-1-ylethyl)amino]phenyl}methanol	
267	3-bromo-4-(4-{4-methyl-2'-[(2-pyrrolidin-1-ylethyl)oxy]biphenyl-3-yl}piperazin-1-yl)-1H- pyrazolo[3,4-d]pyrimidine	
268	3-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-5-{[(2,2-difluoroevelopropyl)methyl]oxy}-2-methyl-N-(2-pyrrolidin-1-ylethyl)aniline	
269	5-bromo-3-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-2-methyl-N-(2-pyrolidin-1-ylethyl)aniline	
270	3-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl]piperazin-1-yl]-5-[(ethyloxy)methyl]-2-methyl-N-(2-pyrrolidin-1-ylethyl)aniline	
271	3-[4-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-1-methyl-6- (trifluoromethyl)-1H-benzimidazol-2-yl]propan-1-ol	

	Table 2a. Representative AKT Inhibitors	
Cmpd No.	Name	
272	1-{3-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-4-methyl-5-[(2-pyrrolidin-1-ylethyl)amino]phenyl}-4,4,4-trifluorobutan-1-one	
273	{3-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-4-methyl-5-[(2-pyrrollidin-1-ylethyl)amino]phenyl}(cyclopropyl)methanone	
274	3-({3'-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-4'-methylbiphenyl-2- yl}oxyl-N.N-dimethylpropan-1-amine	
275	3-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-5-(1,1-difluorobutyl)-2-methyl-N-(2-pyrrolidin-1-ylethyl)aniline	
276	3-bromo-4-(4-{4-methyl-2'-[(3-morpholin-4-ylpropyl)oxy]biphenyl-3-yl} piperazin-1-yl)- 1H-pyrazolo[3,4-d]pyrimidine	
277	3-bromo-4-(4-(4-methyl-2'-[(2-morpholin-4-ylethyl)oxy]biphenyl-3-yl}piperazin-1-yl)-1H- pyrazolo[3,4-d]pyrimidine	
278	3-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)pipcrazin-1-yl]-2-methyl-N-(2-pyrrolidin-1-ylethyl)-5-{[(2,2,2-trifluoroethyl)oxy]methyl}aniline	
279	1-[2-(3'-[4-(3-bromo-]H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-4'-methylbiphenyl- [2-yl]oxylethyl]pyrrolidine-2,5-dione	
280	3-fromo-4-(4-{3'-fluoro-4-methyl-2'-{(2-pyrrolidin-1-ylethyl)oxy]biphenyl-3-yl} piperazin-  1-yl)-1H-pyrazolo[3,4-d]pyrimidine	
281	1-{3-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-5-[(2-pyrrolidin-1-ylethyl)amino]phenyl}butan-1-one	
282	угентууланногу, 23-4-(3-bromo-1H-рутагою[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-2-methyl-N-(2-рутгоlidin- 1-ylethyl)-5-((3,3,3-trifluoropropyl)оху]aniline	
283	3-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-2-methyl-N-(2-pyrrolidin-1-ylethyl)-5-[(2,22-trifluoroethyl)oxy]aniline	
284	1-{3-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-4-methyl-5-[(2-pyrrol idin-1-ylethyl)amino]phenyl]butan-1-ol	
285	3-bromo-4-(4-(4-chloro-2-([2-pyrrolidin-1-ylethyl)oxy]biphenyl-3-yl}piperazin-1-yl)-1H- pyrazolo[3,4-d]pyrimidine	
286	y/acotos/s- 3-[4-(4-{5-{2,3-difluoro-2-(fluoromethyl)propyl]oxy}-2-methyl-3-[(2-pyrrolidin-1- ylethyl)amino[phenyl}piperazin-1-yl)-1H-pyrazolo[3,4-d]pyrimidin-3-yl]prop-2-yn-1-ol	
287	3-bromo-4-(4-{4-chloro-4'-fluoro-2'-[(2-pyrrolidin-1-ylethyl)oxy]biphenyl-3-yl}piperazin-1- yb-1H-pyrazolo[3.4-d]pyrimidine	
288	3-bromo-4-(4-{4-methyl-3'-[(2-pyrrolidin-1-ylethyl)oxy]biphenyl-3-yl}piperazin-1-yl)-1H-	
289	(2E)-3-[4-(4-{5-{[2,3-difluoro-2-(fluoromethyl)propyl]oxy}-2-methyl-3-[(2-pyrrolidin-1-	
290	yeunyjamma piasa yy py 3-[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-2-methyl-N-(2-pyrrolidin-1-ylethyl)-5-[4,4,4-trifluoro-1,1-bis(methyloxy)butyl]aniline	
291	6-(4-phenylpiperazin-1-yl)-9H-purine	
292	6-[4-(3-chlorophenyl)piperazin-1-yl]-9H-purine	
293	4-(4-phenylpiperazin-1-yl)-7H-pyrrolo[2,3-d]pyrimidine	
294	4-[4-(3-chlorophenyl)piperazin-1-yl]-7H-pyrrolo[2,3-d]pyrimidine	
295	4-(4-phenylpiperazin-1-yl)-1H-pyrazolo[3,4-d]pyrimidine	
296	4-[4-(3-chlorophenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine	
297	6-[4-(2-chlorophenyl)piperazin-1-yl]-9H-purine	
298	6-[4-(2-fluorophenyl)piperazin-1-yl]-9H-purine	
299	4-[4-(2-methylphenyl)piperazin-1-yl]-7H-pyrrolo[2,3-d]pyrimidine 4-{4-[2-(methyloxy)phenyl]piperazin-1-yl}-7H-pyrrolo[2,3-d]pyrimidine	
300	4-{4-[2-(metnyloxy)pnenyl]piperaziii-1-yi;-711-pytrolo[2,5-d]pyrimidale	

Name   Name   Name   Name   Name   Name   Name   A-(4-[3-(methyloxy)phenyl]piperazin-1-yl)-7H-pyrrolo[2,3-d]pyrimidine   4-(4-(4-(methyloxy)phenyl]piperazin-1-yl)-7H-pyrrolo[2,3-d]pyrimidine   Name   Nam		Table 2a. Representative AKT Inhibitors
No. 301 4-(4-(3-(methyloxy)phenyl]piperazin-1-yl)-7H-pyrrolo[2,3-d]pyrimidine 302 4-(4-(4-(methyloxy)phenyl]piperazin-1-yl)-7H-pyrrolo[2,3-d]pyrimidine 303 4-(4-(4-(methyloxy)phenyl]piperazin-1-yl)-7H-pyrrolo[2,3-d]pyrimidine 304 6-(4-(4-(methyloxy)phenyl]piperazin-1-yl)-9H-pyrrolo[2,3-d]pyrimidine 305 6-(4-(4-(methyloxy)phenyl]piperazin-1-yl)-9H-pyrrine 306 6-(4-(4-(methyloxy)phenyl]piperazin-1-yl)-9H-pyrrine 307 6-(4-(4-(holrophenyl)piperazin-1-yl)-9H-pyrrolo[2,3-d]pyrimidine 308 4-(4-(4-(holrophenyl)piperazin-1-yl)-7H-pyrrolo[2,3-d]pyrimidine 309 4-(4-(4-(holrophenyl)piperazin-1-yl)-7H-pyrrolo[2,3-d]pyrimidine 310 4-(4-(2-(holrophenyl)piperazin-1-yl)-7H-pyrrolo[2,3-d]pyrimidine 311 4-(4-(2-(holrophenyl)piperazin-1-yl)-7H-pyrrolo[2,3-d]pyrimidine 312 6-(4-(2-methylphenyl)piperazin-1-yl)-7H-pyrrolo[2,3-d]pyrimidine 313 4-(4-(2-(methylphenyl)piperazin-1-yl)-7H-pyrrolo[2,3-d]pyrimidine 314 4-(4-(3-(miluromethyl)phenyl]piperazin-1-yl)-1H-pyrazolo[3,4-d]pyrimidine 315 4-(4-(2-methylphenyl)piperazin-1-yl)-3-methyl-1H-pyrazolo[3,4-d]pyrimidine 316 4-(4-(3-(holrop-2-methylphenyl)piperazin-1-yl)-3-methyl-1H-pyrazolo[3,4-d]pyrimidine 317 3-methyl-4-(4-(2-methylphenyl)piperazin-1-yl)-3-methyl-1H-pyrazolo[3,4-d]pyrimidine 318 4-(4-(3-(holrop-2-methylphenyl)piperazin-1-yl)-3-methyl-1H-pyrazolo[3,4-d]pyrimidine 319 4-(4-(3-(holrop-2-methylphenyl)piperazin-1-yl)-3-methyl-1H-pyrazolo[3,4-d]pyrimidine 320 4-(4-(3-(holrop-2-methylphenyl)piperazin-1-yl)-6-methyl-1H-pyrazolo[3,4-d]pyrimidine 321 4-(4-(3-(holrop-2-methylphenyl)piperazin-1-yl)-6-methyl-1H-pyrazolo[3,4-d]pyrimidine 322 4-(4-(3-(holrop-2-methylphenyl)piperazin-1-yl)-8-methyl-1H-pyrazolo[3,4-d]pyrimidine 324 4-(4-(3-(holrop-2-methylphenyl)piperazin-1-yl)-8-methyl-1H-pyrazolo[3,4-d]pyrimidine 325 4-(4-(3-(holrop-2-methylphenyl)piperazin-1-yl)-8-methyl-1H-pyrazolo[3,4-d]pyrimidine 326 4-(4-(3-(holrop-2-methylphenyl)piperazin-1-yl)-8-methyl-1H-pyrazolo[3,4-d]pyrimidine 327 3-bromo-4-(4-(3-(holrop-2-methylphenyl)piperazin-1-yl]-8-methyl-1H-pyrazolo[3,4-d]pyrimidine 328 4	Cmpd	
4-(4-(4-(methyloxy)pheny) piperazin-1-y )-7H-pyrrolo[2,3-d]pyrimidine 4-(4-(4-(4-(methylox)pheny) piperazin-1-y )-7H-pyrrolo[2,3-d]pyrimidine 303		Name
4-{4-{3-(trifluoromethyl)phenyl)piperazin-1-yl)-7H-pyrnolo[2,3-d]pyrimidine 6-{4-(4-(methyloxy)phenyl)piperazin-1-yl)-9H-purine 306 6-{4-(2-(methyloxy)phenyl)piperazin-1-yl)-9H-purine 307 6-{4-(4-(methyloxy)piperazin-1-yl)-9H-purine 6-{4-(4-(4-hlorophenyl)piperazin-1-yl)-9H-purine 308 4-{4-(4-(blorophenyl)piperazin-1-yl)-7H-pyrnolo[2,3-d]pyrimidine 309 4-{4-(2-chlorophenyl)piperazin-1-yl)-7H-pyrnolo[2,3-d]pyrimidine 310 4-{4-(4-(3-hlorophenyl)piperazin-1-yl)-7H-pyrnolo[2,3-d]pyrimidine 311 4-{4-(2-florophenyl)piperazin-1-yl)-7H-pyrnolo[2,3-d]pyrimidine 312 6-{4-(3-(trifluoromethyl)phenyl)piperazin-1-yl)-9H-purine 313 6-{4-(2-methylphenyl)piperazin-1-yl)-9H-purine 314 4-{4-(3-(trifluoromethyl)phenyl)piperazin-1-yl)-9H-purine 315 4-{4-(2-methylphenyl)piperazin-1-yl)-9H-pyrazolo[3,4-d]pyrimidine 316 4-{4-(3-chlorophenyl)piperazin-1-yl]-3-methyl-1H-pyrazolo[3,4-d]pyrimidine 317 3-methyl-4-[4-(2-methylphenyl)piperazin-1-yl]-3-methyl-1H-pyrazolo[3,4-d]pyrimidine 318 4-{4-(3-chloro-2-methylphenyl)piperazin-1-yl]-3-methyl-1-1Pyrazolo[3,4-d]pyrimidine 319 4-{4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-methyl-1-1Pyrazolo[3,4-d]pyrimidine 319 4-{4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-methyl-1-1Pyrazolo[3,4-d]pyrimidine 320 4-{4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-methyl-1-Pyrazolo[3,4-d]pyrimidine 321 4-{4-(5-chloro-2-methylphenyl)piperazin-1-yl]-6-methyl-1H-pyrazolo[3,4-d]pyrimidine 322 4-{4-(5-chloro-2-methylphenyl)piperazin-1-yl]-6-(1-methylethyl-1H-pyrazolo[3,4-d]pyrimidine 323 4-{4-(5-chloro-2-methylphenyl)piperazin-1-yl]-6-(1-methylethyl-1)-1Pyrazolo[3,4-d]pyrimidine 324 4-{4-(5-chloro-2-methylphenyl)piperazin-1-yl]-8-methyl-1H-pyrazolo[3,4-d]pyrimidine 325 4-{4-(5-chloro-2-methylphenyl)piperazin-1-yl]-8-methyl-1H-pyrazolo[3,4-d]pyrimidine 326 4-{4-(5-chloro-2-methylphenyl)piperazin-1-yl]-8-methyl-1H-pyrazolo[3,4-d]pyrimidine 327 3-bromo-4-{4-(5-chloro-2-methylphenyl)piperazin-1-yl]-8-methyl-1H-pyrazolo[3,4-d]pyrimidine 328 4-{4-(5-chloro-2-methylphenyl)piperazin-1-yl]-8-methyl-1H-pyrazolo[3,4-d]pyrimi	301	
304   6-[4-[4-(methyloxy)pheny ]piperazin-1-y]]-9H-purine     305   6-[4-(4-(horopheny)biperazin-1-y]]-9H-purine     306   6-[4-(4-(horopheny)biperazin-1-y]]-9H-purine     307   6-[4-(4-(horopheny)biperazin-1-y]]-9H-purine     308   4-[4-(4-(horopheny)biperazin-1-y]]-9H-purine     309   4-[4-(2-(horopheny)biperazin-1-y]]-7H-pyrnolo[2,3-d]pyrimidine     310   4-[4-(2-(horopheny)biperazin-1-y]]-7H-pyrnolo[2,3-d]pyrimidine     311   4-[4-(2-fluoropheny)biperazin-1-y]]-7H-pyrnolo[2,3-d]pyrimidine     312   6-[4-[3-(influoromethy)pheny]biperazin-1-y]]-9H-purine     313   4-[4-(2-methylpheny)biperazin-1-y]]-7H-pyrnolo[2,3-d]pyrimidine     314   4-[4-[3-(influoromethylpheny]biperazin-1-y]]-7H-pyrazolo[3,4-d]pyrimidine     315   4-[4-(2-methylpheny)biperazin-1-y]-1H-pyrazolo[3,4-d]pyrimidine     316   4-[4-(3-chloro-pheny)biperazin-1-y]-1H-pyrazolo[3,4-d]pyrimidine     317   3-methyl-4-[4-(2-methylpheny)biperazin-1-y]-1H-pyrazolo[3,4-d]pyrimidine     318   4-[4-(5-chloro-2-methylpheny)biperazin-1-y]-3-methyl-1H-pyrazolo[3,4-d]pyrimidine     319   4-[4-(5-chloro-2-methylpheny)biperazin-1-y]-3-methyl-1H-pyrazolo[3,4-d]pyrimidine     310   4-[4-(5-chloro-2-methylpheny)biperazin-1-y]-3-methyl-1H-pyrazolo[3,4-d]pyrimidine     311   4-[4-(5-chloro-2-methylpheny)biperazin-1-y]-3-methyl-4-phenyl-1H-pyrazolo[3,4-d]pyrimidine     312   4-[4-(5-chloro-2-methylpheny)biperazin-1-y]-3-methyl-1H-pyrazolo[3,4-d]pyrimidine     313   4-[4-(5-chloro-2-methylpheny)biperazin-1-y]-3-methyl-1H-pyrazolo[3,4-d]pyrimidine     314   4-[4-(5-chloro-2-methylpheny)biperazin-1-y]-3-methyl-4-phenylbiply-1H-pyrazolo[3,4-d]pyrimidine     315   4-[4-(5-chloro-2-methylphenylbiperazin-1-y]-3-phenyl-1H-pyrazolo[3,4-d]pyrimidine     316   4-[4-(5-chloro-2-methylphenylbiperazin-1-y]-3-phenyl-1H-pyrazolo[3,4-d]pyrimidine     317   3-methyl-3-methyl-3-methyl-3-(2-(methyloxy)ethyl)oxyl-3-methyl-3-methyl-3-(3-(3-(3-d)pyrimidine     318   4-[4-(5-chloro-2-methylphenyl)piperazin-1-y]-3-phenyl-1H-pyrazolo[3,4-d]pyrimidine     319   4-[4-(5-chloro-2-methylphenyl)p	302	4-{4-[4-(methyloxy)phenyl]piperazin-1-yl}-7H-pyττolo[2,3-d]pyτimidine
306 6-[4-(2-(methyloxy)phenyl]piperazin-1-y])-9H-purine 6-[4-(4-chlorophenyl)piperazin-1-y]-9H-purine 307 6-[4-(4-(holrophenyl)piperazin-1-y]-9H-purine 308 4-[4-(4-(holrophenyl)piperazin-1-y]-9H-purine 309 4-[4-(4-(holrophenyl)piperazin-1-y]-9H-purine 310 4-[4-(4-(holrophenyl)piperazin-1-y]-9H-purine 311 4-[4-(2-filurophenyl)piperazin-1-y]-9H-purinol(2,3-d]pyrimidine 311 4-[4-(2-filurophenyl)piperazin-1-y]-9H-purinol(2,3-d]pyrimidine 312 6-[4-[3-(trifluromethyl)phenyl]piperazin-1-y]-9H-purinol 313 6-[4-(2-methylphenyl)piperazin-1-y]-9H-purinol 314 4-(4-(3-(trifluromethyl)phenyl]piperazin-1-y]-9H-purinol 315 4-[4-(2-methylphenyl)piperazin-1-y]-9H-purinol 316 4-[4-(3-(trifluromethyl)phenyl)piperazin-1-y]-9H-purinol 317 3-methyl-4-[4-(2-methylphenyl)piperazin-1-y]-1H-pyrazolo[3,4-d]pyrimidine 318 4-[4-(3-chlorop-methylphenyl)piperazin-1-y]-1H-pyrazolo[3,4-d]pyrimidine 319 4-[4-(3-chloro-2-methylphenyl)piperazin-1-y]-1H-pyrazolo[3,4-d]pyrimidine 310 4-[4-(3-chloro-2-methylphenyl)piperazin-1-y]-3-methyl-1H-pyrazolo[3,4-d]pyrimidine 311 4-[4-(3-chloro-2-methylphenyl)piperazin-1-y]-3-methyl-1H-pyrazolo[3,4-d]pyrimidine 312 4-[4-(3-chloro-2-methylphenyl)piperazin-1-y]-3-methyl-1H-pyrazolo[3,4-d]pyrimidine 313 4-[4-(3-chloro-2-methylphenyl)piperazin-1-y]-3-methyl-1H-pyrazolo[3,4-d]pyrimidine 314 4-[4-(3-chloro-2-methylphenyl)piperazin-1-y]-3-methyl-1H-pyrazolo[3,4-d]pyrimidine 315 4-[4-(3-chloro-2-methylphenyl)piperazin-1-y]-3-methyl-1H-pyrazolo[3,4-d]pyrimidine 316 4-[4-(3-chloro-2-methylphenyl)piperazin-1-y]-3-methyl-1H-pyrazolo[3,4-d]pyrimidine 317 4-[4-(3-chloro-2-methylphenyl)piperazin-1-y]-3-methyl-1H-pyrazolo[3,4-d]pyrimidine 318 4-[4-(3-chloro-2-methylphenyl)piperazin-1-y]-3-methyl-1H-pyrazolo[3,4-d]pyrimidine 319 4-[4-(3-chloro-2-methylphenyl)piperazin-1-y]-3-methyl-1H-pyrazolo[3,4-d]pyrimidine 320 4-[4-(3-chloro-2-methylphenyl)piperazin-1-y]-3-methyl-1H-pyrazolo[3,4-d]pyrimidine 321 4-[4-(3-chloro-2-methylphenyl)piperazin-1-y]-3-methyl-1H-pyrazolo[3,4-d]pyrimidine 322 4-[4-(3-chloro-2-methylphenyl)piperazin-1-	303	4-{4-[3-(trifluoromethyl)phenyl]piperazin-1-yl}-7H-pyrrolo[2,3-d]pyrimidine
306 6-[4-(4-chlorophenyl)piperazin-1-yl]-9H-purine 6-[4-(4-fluorophenyl)piperazin-1-yl]-9H-purine 307 4-[4-(4-chlorophenyl)piperazin-1-yl]-7H-pyrnole[2,3-d]pyrimidine 308 4-[4-(4-chlorophenyl)piperazin-1-yl]-7H-pyrnole[2,3-d]pyrimidine 310 4-[4-(2-chlorophenyl)piperazin-1-yl]-7H-pyrnole[2,3-d]pyrimidine 311 4-[4-(2-fluorophenyl)piperazin-1-yl]-7H-pyrnole[2,3-d]pyrimidine 312 6-[4-[3-(rifluoromethyl)phenyl]piperazin-1-yl]-9H-purine 313 6-[4-(2-methylphenyl)piperazin-1-yl]-9H-purine 314 4-[4-[3-(rifluoromethyl)phenyl]piperazin-1-yl]-9H-purine 315 4-[4-(2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine 316 4-[4-(3-chlorophenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine 317 3-methyl-4-[4-(2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine 318 4-[4-(3-chloro-2-methylphenyl)piperazin-1-yl]-3-methyl-1H-pyrazolo[3,4-d]pyrimidine 319 4-[4-(3-chloro-2-methylphenyl)piperazin-1-yl]-3-methyl-1-pyrazolo[3,4-d]pyrimidine 320 4-[4-(3-chloro-2-methylphenyl)piperazin-1-yl]-3-methyl-1-pyrazolo[3,4-d]pyrimidine 321 4-[4-(3-chloro-2-methylphenyl)piperazin-1-yl]-3-methyl-1-pyrazolo[3,4-d]pyrimidine 322 4-[4-(3-chloro-2-methylphenyl)piperazin-1-yl]-3-methyl-1-pyrazolo[3,4-d]pyrimidine 323 4-[4-(3-chloro-2-methylphenyl)piperazin-1-yl]-6-(1-methylethyl-1H-pyrazolo[3,4-d]pyrimidine 324 4-[4-(3-chloro-2-methylphenyl)piperazin-1-yl]-6-(1-methylethyl-1)-H-pyrazolo[3,4-d]pyrimidine 325 4-[4-(3-chloro-2-methylphenyl)piperazin-1-yl]-3-phenyl-1H-pyrazolo[3,4-d]pyrimidine 326 4-[4-(3-chloro-2-methylphenyl)piperazin-1-yl]-3-phenyl-1H-pyrazolo[3,4-d]pyrimidine 327 3-bromo-4-[4-(3-chloro-2-methylphenyl)piperazin-1-yl]-3-phenyl-1H-pyrazolo[3,4-d]pyrimidine 328 4-[4-(3-chloro-2-methylphenyl)piperazin-1-yl]-3-phenyl-1H-pyrazolo[3,4-d]pyrimidine 329 4-[4-(3-chloro-2-methylphenyl)piperazin-1-yl]-3-phenyl-1H-pyrazolo[3,4-d]pyrimidine 330 4-[4-(3-chloro-2-methylphenyl)piperazin-1-yl]-3-phenyl-1H-pyrazolo[3,4-d]pyrimidine 340 4-[4-(3-chloro-2-methylphenyl)piperazin-1-yl]-3-phenyl-1H-pyrazolo[3,4-d]pyrimidine 340 4-[4-(3-chloro-2-methy	304	6-{4-[4-(methyloxy)phenyl]piperazin-1-yl}-9H-purinc
	305	6-{4-[2-(methyloxy)phenyl]piperazin-1-yl}-9H-purine
4-{4-(4-chloropheny)piperazin-1-yl]-7H-pyrrolo[2,3-d]pyrimidine 4-{4-(2-chloropheny)piperazin-1-yl]-7H-pyrrolo[2,3-d]pyrimidine 4-{4-(2-fluoropheny)piperazin-1-yl]-7H-pyrrolo[2,3-d]pyrimidine 4-{4-(2-fluoropheny)piperazin-1-yl]-7H-pyrrolo[2,3-d]pyrimidine 311 4-{4-(2-fluoropheny)piperazin-1-yl]-7H-pyrrolo[2,3-d]pyrimidine 312 6-{4-(3-(trifluoromethy)pheny)piperazin-1-yl]-9H-purine 313 6-{4-(2-methylpheny)piperazin-1-yl]-9H-purine 314 4-(4-(3-(trifluoromethy)pheny)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine 315 4-{4-(3-chloropheny)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine 316 4-{4-(3-chloropheny)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine 317 3-methyl-1-{4-(2-methylpheny)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine 318 4-{4-(3-chlorop-methylpheny)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine 319 4-{4-(3-chlorop-methylpheny)piperazin-1-yl]-3-methyl-1H-pyrazolo[3,4-d]pyrimidine 320 4-{4-(3-chlorop-methylpheny)piperazin-1-yl]-3-methyl-1H-pyrazolo[3,4-d]pyrimidine 321 4-{4-(3-chlorop-methylpheny)piperazin-1-yl]-3-methyl-1H-pyrazolo[3,4-d]pyrimidine 322 4-{4-(3-chlorop-methylpheny)piperazin-1-yl]-4-methyl-1H-pyrazolo[3,4-d]pyrimidine 323 4-{4-(3-chlorop-methylpheny)piperazin-1-yl]-6-methyl-1H-pyrazolo[3,4-d]pyrimidine 324 4-{4-(3-chlorop-methylpheny)piperazin-1-yl]-6-methyl-1H-pyrazolo[3,4-d]pyrimidine 325 4-{4-(3-chlorop-methylpheny)piperazin-1-yl]-6-(methylethyl)-1H-pyrazolo[3,4-d]pyrimidine 326 4-{4-(3-chlorop-methylpheny)piperazin-1-yl]-6-(methylethyl)-1H-pyrazolo[3,4-d]pyrimidine 327 3-bromon-4-(3-(3-chlorop-methylpheny)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine 328 4-{4-(3-chlorop-methylpheny)piperazin-1-yl]-1-(12-(methyloxy)ethylpyrimidin-3-yl)-1-(4-(3-chlorop-methylpheny)piperazin-1-yl]-1-(12-(methyloxy)ethylpyrimidin-3-yl)-1-(4-(3-chlorop-methylpheny)piperazin-1-yl]-1-(12-(methyloxy)ethylpyrimidin-3-yl)-1-(4-(3-chlorop-methylpheny)piperazin-1-yl]-3-(4-(4-(3-chlorop-methylpheny)piperazin-1-yl]-3-(4-(4-(3-chlorop-methylpheny)piperazin-1-yl]-3-(4-(4-(3-chlorop-methylpheny)piperazin-1-yl]-3-(3-((phenylmeth	306	6-[4-(4-chlorophenyl)piperazin-1-yl]-9H-purine
4-{4-(2-chlorophenyl)piperazin-1-yl]-7H-pyrrolo[2,3-d]pyrimidine 4-{4-(4-fluorophenyl)piperazin-1-yl]-7H-pyrrolo[2,3-d]pyrimidine 310 4-{4-(4-fluorophenyl)piperazin-1-yl]-7H-pyrrolo[2,3-d]pyrimidine 311 4-{4-(2-fluorophenyl)piperazin-1-yl]-9H-pyrazin-1-3-d]pyrimidine 312 6-{4-(3-(rifluoromethyl)phenyl)piperazin-1-yl)-9H-pyrazin-1-3-d]pyrimidine 313 4-{4-(3-(rifluoromethyl)phenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine 314 4-{4-(3-(rifluoromethyl)phenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine 315 4-{4-(2-methylphenyl)piperazin-1-yl]-3-methyl-1H-pyrazolo[3,4-d]pyrimidine 316 4-{4-(3-chlorophenyl)piperazin-1-yl]-3-methyl-1H-pyrazolo[3,4-d]pyrimidine 317 3-methyl-4-{2-(2-methylphenyl)piperazin-1-yl]-3-methyl-1H-pyrazolo[3,4-d]pyrimidine 318 4-{4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-methyl-1-pyrazolo[3,4-d]pyrimidine 319 4-{4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-methyl-1-pyrazolo[3,4-d]pyrimidine 320 4-{4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-methyl-1-pyrazolo[3,4-d]pyrimidine 321 4-{4-(5-chloro-2-methylphenyl)piperazin-1-yl]-6-methyl-1H-pyrazolo[3,4-d]pyrimidine 322 4-{4-(5-chloro-2-methylphenyl)piperazin-1-yl]-6-(1-methylethyl)-1H-pyrazolo[3,4-d]pyrimidine 323 4-{4-(5-chloro-2-methylphenyl)piperazin-1-yl]-6-(1-methylethyl)-1H-pyrazolo[3,4-d]pyrimidine 325 4-{4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-phenyl-1H-pyrazolo[3,4-d]pyrimidine 326 4-{4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-phenyl-1H-pyrazolo[3,4-d]pyrimidine 327 3-bromo-4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-methyl-1H-pyrazolo[3,4-d]pyrimidine 328 4-{4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine 329 4-{4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine 330 4-{4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine 340 4-(4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine 340 4-(4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine 340 4-(4-(5-chloro-2-methylphenylpiperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine 340 4	307	6-[4-(4-fluorophenyl)piperazin-1-yl]-9H-purine
310 4-[4-(4-fluorophenyl)piperazin-1-yl]-7H-pyrnolo[2,3-d]pyrimidine 311 4-(4-(2-fluorophenyl)piperazin-1-yl]-7H-pyrnolo[2,3-d]pyrimidine 312 6-[44]-(4flufformomethyl)phenyl)piperazin-1-yl)-1H-pyrazolo[3,4-d]pyrimidine 313 4-(4-(3-(flufformomethyl)phenyl)piperazin-1-yl)-1H-pyrazolo[3,4-d]pyrimidine 314 4-(4-(3-(flufformomethyl)phenyl)piperazin-1-yl)-1H-pyrazolo[3,4-d]pyrimidine 315 4-(4-(2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine 316 4-(4-(3-chlorophenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine 317 3-methyl-4-[4-(2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine 318 4-(4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-methyl-1H-pyrazolo[3,4-d]pyrimidine 319 4-(4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-methyl-1H-pyrazolo[3,4-d]pyrimidine 320 4-(4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-methyl-4-phenyl-1H-pyrazolo[3,4-d]pyrimidine 321 4-(4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-methyl-1H-pyrazolo[3,4-d]pyrimidine 322 4-(4-(5-chloro-2-methylphenyl)piperazin-1-yl]-6-thyl-1H-pyrazolo[3,4-d]pyrimidine 323 4-(4-(5-chloro-2-methylphenyl)piperazin-1-yl]-6-thyl-1H-pyrazolo[3,4-d]pyrimidine 324 4-(4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-phenyl-1H-pyrazolo[3,4-d]pyrimidine 325 4-(4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-phenyl-1H-pyrazolo[3,4-d]pyrimidine 326 4-(4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-phenyl-1H-pyrazolo[3,4-d]pyrimidine 327 3-bromo-4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine 328 4-(4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-phenyl-1H-pyrazolo[3,4-d]pyrimidine 329 4-(4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine 330 4-(4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine 340 4-(4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl]-1H-pyrazolo[3,4-d]pyrimidin-	308	
311 4-[4-(2-fluorophenyl)piperazin-1-yl]-7H-pyrnolo[2,3-d]pyrimidine 312 6-[4-[3-(trifluoromethyl)phenyl]piperazin-1-yl]-9H-purine 313 6-[4-(2-methylphenyl)piperazin-1-yl]-9H-purine 314 4-(4-[3-(trifluoromethyl)phenyl]piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine 315 4-[4-(2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine 316 4-[4-(3-chirophenyl)piperazin-1-yl]-3-methyl-1H-pyrazolo[3,4-d]pyrimidine 317 3-methyl-4-[4-(2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine 318 4-[4-(3-chirop-2-methylphenyl)piperazin-1-yl]-3-methyl-1H-pyrazolo[3,4-d]pyrimidine 319 4-[4-(3-chirop-2-methylphenyl)piperazin-1-yl]-3-methyl-1H-pyrazolo[3,4-d]pyrimidine 320 4-[4-(3-chirop-2-methylphenyl)piperazin-1-yl]-3-methyl-1H-pyrazolo[3,4-d]pyrimidine 321 4-[4-(3-chirop-2-methylphenyl)piperazin-1-yl]-3-methyl-1H-pyrazolo[3,4-d]pyrimidine 322 4-[4-(3-chirop-2-methylphenyl)piperazin-1-yl]-6-methyl-1H-pyrazolo[3,4-d]pyrimidine 323 4-[4-(3-chirop-2-methylphenyl)piperazin-1-yl]-6-methyl-1H-pyrazolo[3,4-d]pyrimidine 324 4-[4-(3-chirop-2-methylphenyl)piperazin-1-yl]-6-methyl-1H-pyrazolo[3,4-d]pyrimidine 325 4-[4-(3-chirop-2-methylphenyl)piperazin-1-yl]-6-methylethyl-1H-pyrazolo[3,4-d]pyrimidine 326 4-[4-(3-chirop-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine 327 3-bromo-4-[4-(3-chirop-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine 328 4-[4-(3-chirop-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine 329 4-[4-(3-chirop-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine 330 4-[4-(3-chirop-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine 341 4-[4-(3-chirop-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine 342 4-[4-(3-chirop-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine 343 4-[4-(3-chirop-2-methylphenyl)piperazin-1-yl]-3-((phenylmethyl)pyrimidin-3-yl)-1H-pyrazolo[3,4-d]pyrimidin-3-yl)-1H-pyrazolo[3,4-d]pyrimidin-3-yl)-1H-pyrazolo[3,4-d]pyrimidin-3-yl)-1H-pyrazolo[3,4-d]pyrimidin-3-yl)-1H-pyrazolo[3,4-d]pyrimidin-3-yl)-1H-pyrazolo[3,4-d]pyrimidin-3-yl-	309	4-[4-(2-chlorophenyl)piperazin-1-yl]-7H-pyrrolo[2,3-d]pyrimidine
312 6-[4-[3-(trifluoromethyl)phenyl]piperazin-1-yl]-9H-purine 313 6-[4-(2-methylphenyl)piperazin-1-yl]-9H-purine 314 4-[4-[3-(trifluoromethyl)phenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine 315 4-[4-(2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine 316 4-[4-(3-chlorophenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine 317 3-methyl-4-[4-(2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine 318 4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine 319 4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-methyl-1-pyrazolo[3,4-d]pyrimidine 320 4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-methyl-1-pyrazolo[3,4-d]pyrimidine 321 4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-methyl-1-H-pyrazolo[3,4-d]pyrimidine 322 4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-6-thyl-1H-pyrazolo[3,4-d]pyrimidine 323 4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-6-(1-methylethyl-)H-pyrazolo[3,4-d]pyrimidine 324 4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-phenyl-1H-pyrazolo[3,4-d]pyrimidine 325 4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-phenyl-1H-pyrazolo[3,4-d]pyrimidine 326 4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-methyl-1H-pyrazolo[3,4-d]pyrimidine 327 3-bromo-4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine 328 4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine 329 4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine 330 4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine 341 4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine 342 4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-(phenylmethyl-ynylphenyl)-1H-pyrazolo[3,4-d]pyrimidine 344-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-(phenylmethyl-ynylphenyl)-1H-pyrazolo[3,4-d]pyrimidine 344-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-(phenylmethyl-ynylphenyl)-1H-pyrazolo[3,4-d]pyrimidine 344-[4-(5-chloro-2-methylphenylphenylphenzin-1-yl]-3-(phenylmethyl-ynylphenyl)-1H-pyrazolo[3,4-d]pyrimidine 344-[4-(5-chloro-	310	
313 6-[4-(2-methylphenyl)piperazin-1-yl]-9H-purine 4-(4-(3-(trifluoromethylphenyl)piperazin-1-yl)-1H-pyrazolo[3,4-d]pyrimidine 314 4-(4-(3-(trifluoromethylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine 315 4-[4-(2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine 316 4-[4-(3-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine 317 3-methyl-4-[4-(2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine 318 4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-methyl-1H-pyrazolo[3,4-d]pyrimidine 319 4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-methyl-1H-pyrazolo[3,4-d]pyrimidine 320 4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-methyl-4-phenyl-1H-pyrazolo[3,4-d]pyrimidine 321 4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-6-ethyl-1H-pyrazolo[3,4-d]pyrimidine 322 4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-6-ethyl-1H-pyrazolo[3,4-d]pyrimidine 323 4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-phenyl-1H-pyrazolo[3,4-d]pyrimidine 326 4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-phenyl-1H-pyrazolo[3,4-d]pyrimidine 327 4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-([2-(methyloxy)ethylloxy) methyl)-1H- yyazolo[3,4-d]pyrimidine 328 4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine 329 4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine 330 4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine 331 4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl]-1H-pyraz	311	4-[4-(2-fluorophenyl)piperazin-1-yl]-7H-pyrrolo[2,3-d]pyrimidine
4-(4-(3-(trifluoromethyl)phenyl]piperazin-1-yl]-1H-pyrazolo(3,4-d]pyrimidine 4-(4-(3-(trifluoromethyl)piperazin-1-yl]-1H-pyrazolo(3,4-d]pyrimidine 316 4-(4-(3-chloro)p-hyl)piperazin-1-yl]-1H-pyrazolo(3,4-d]pyrimidine 317 3-methyl-14-(4-(2-methylphenyl)piperazin-1-yl]-1H-pyrazolo(3,4-d]pyrimidine 318 4-(4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-methyl-1H-pyrazolo(3,4-d]pyrimidine 319 4-(4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-methyl-1H-pyrazolo(3,4-d]pyrimidine 320 4-(4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-methyl-1H-pyrazolo(3,4-d]pyrimidine 321 4-(4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-methyl-1H-pyrazolo(3,4-d]pyrimidine 322 4-(4-(5-chloro-2-methylphenyl)piperazin-1-yl]-6-methyl-1H-pyrazolo(3,4-d]pyrimidine 323 4-(4-(5-chloro-2-methylphenyl)piperazin-1-yl]-6-methyl-1H-pyrazolo(3,4-d]pyrimidine 324 4-(4-(5-chloro-2-methylphenyl)piperazin-1-yl]-6-methyl-1H-pyrazolo(3,4-d]pyrimidine 325 4-(4-(5-chloro-2-methylphenyl)piperazin-1-yl]-6-methyl-1H-pyrazolo(3,4-d]pyrimidine 326 4-(4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo(3,4-d]pyrimidine 327 3-bromo-4-(4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo(3,4-d]pyrimidine 328 4-(4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo(3,4-d]pyrimidine 329 4-(4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo(3,4-d]pyrimidine 330 4-(4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo(3,4-d]pyrimidin-3-mine 331 4-(4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo(3,4-d]pyrimidin-3-mine 332 4-(4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-(3-(phenylmethyl)-3-(3-d)pyrimidin-3-yl)-1H-pyrazolo(3,4-d)pyrimidin-3-yl)-1H-pyrazolo(3,4-d)pyrimidin-3-yl)-1H-pyrazolo(3,4-d)pyrimidin-3-yl)-1H-pyrazolo(3,4-d)pyrimidin-3-yl)-1H-pyrazolo(3,4-d)pyrimidin-3-yl)-1H-pyrazolo(3,4-d)pyrimidin-3-yl)-1H-pyrazolo(3,4-d)pyrimidin-3-yl)-1H-pyrazolo(3,4-d)pyrimidin-3-yl)-1H-pyrazolo(3,4-d)pyrimidin-3-yl)-1H-pyrazolo(3,4-d)pyrimidin-3-yl)-1H-pyrazolo(3,4-d)pyrimidin-3-yl)-1H-pyrazolo(3,4-d)pyrimidin-3-yl)-1H-pyrazolo(3,4-d)pyrimidin-3-yl)-1H-pyrazolo(3,4-	312	6-{4-[3-(trifluoromethyl)phenyl]piperazin-1-yl}-9H-purine
315 4-[4-(2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine 316 4-[4-(3-chloro-phenyl)piperazin-1-yl]-3-methyl-1H-pyrazolo[3,4-d]pyrimidine 318 4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine 318 4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine 319 4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-methyl-1H-pyrazolo[3,4-d]pyrimidine 320 4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-methyl-6-phenyl-1H-pyrazolo[3,4-d]pyrimidine 321 4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-6-methyl-1H-pyrazolo[3,4-d]pyrimidine 322 4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-6-(1-methylethyl-1H-pyrazolo[3,4-d]pyrimidine 323 4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-6-(1-methylethyl-1H-pyrazolo[3,4-d]pyrimidine 324 4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-phenyl-1H-pyrazolo[3,4-d]pyrimidine 325 4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-phenyl-1H-pyrazolo[3,4-d]pyrimidine 326 4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine 327 3-bromo-4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine 328 4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine 329 4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine 330 4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine 341 4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine 342 4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine 343 4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine 344 4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-(phenylmethyl)-pyrazolo[3,4-d]pyrimidine 344 4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-(phenylmethyl)-pyrazolo[3,4-d]pyrimidine 344 4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-(phenylmethyl)-pyrazolo[3,4-d]pyrimidine 344 4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-(phenylmethyl)-pyrazolo[3,4-d]pyrimidine 344 4-[4-(5-chloro-2-methylphenylpiperazin-1-yl]-3-(phenylmethyl)-pyrazolo[3,4-d]pyri	313	
316 4-[4-(3-chlorophenyl)piperazin-1-yl]-3-methyl-1H-pyrazolo[3,4-d]pyrimidine 317 3-methyl-4-[4-(2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine 318 4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine 319 4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-methyl-1H-pyrazolo[3,4-d]pyrimidine 320 4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-methyl-1H-pyrazolo[3,4-d]pyrimidine 321 4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-methyl-1H-pyrazolo[3,4-d]pyrimidine 322 4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-6-ethyl-1H-pyrazolo[3,4-d]pyrimidine 323 4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-6-ethyl-1H-pyrazolo[3,4-d]pyrimidine 324 4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-phenyl-1H-pyrazolo[3,4-d]pyrimidine 325 4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-phenyl-1H-pyrazolo[3,4-d]pyrimidine 326 4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-phenyl-1H-pyrazolo[3,4-d]pyrimidine 327 3-bromo-4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine 328 4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine 329 4-(4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine 330 4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine 331 4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl]-1H-pyrazolo[3,4-d]p	314	4-{4-[3-(trifluoromethyl)phenyl]piperazin-1-yl}-1H-pyrazolo[3,4-d]pyrimidine
317 3-methyl-4-[4-(2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine 4-[44(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine 318 4-[44(5-chloro-2-methylphenyl)piperazin-1-yl]-3-methyl-1H-pyrazolo[3,4-d]pyrimidine 320 4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-methyl-1H-pyrazolo[3,4-d]pyrimidine 321 4-[44(5-chloro-2-methylphenyl)piperazin-1-yl]-6-methyl-1H-pyrazolo[3,4-d]pyrimidine 322 4-[44(5-chloro-2-methylphenyl)piperazin-1-yl]-6-methyl-1H-pyrazolo[3,4-d]pyrimidine 323 4-[44(5-chloro-2-methylphenyl)piperazin-1-yl]-6-methyl-1H-pyrazolo[3,4-d]pyrimidine 324 4-[44(5-chloro-2-methylphenyl)piperazin-1-yl]-6-methyl-1H-pyrazolo[3,4-d]pyrimidine 325 4-[44(5-chloro-2-methylphenyl)piperazin-1-yl]-3-(12-(methyloxy)ethyl)-1H-pyrazolo[3,4-d]pyrimidine 326 4-[44(5-chloro-2-methylphenyl)piperazin-1-yl]-3-([2-(methyloxy)ethyl)-1H-pyrazolo[3,4-d]pyrimidine 327 3-bromo-4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine 328 4-[44(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl]-14-(4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl]-14-(4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl]-14-(4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl]-14-pyrazolo[3,4-d]pyrimidin-3-yl]-14-(4-(5-chloro-2-methylphenyl)piperazin-1-yl]-14-pyrazolo[3,4-d]pyrimidin-3-yl]-14-(4-(5-chloro-2-methylphenyl)piperazin-1-yl]-14-pyrazolo[3,4-d]pyrimidin-3-yl]-14-pyrazolo[3,4-d]pyrimidin-3-yl]-14-(4-(5-chloro-2-methylphenyl)piperazin-1-yl]-14-pyrazolo[3,4-d]pyrimidin-3-yl]-14-(4-(5-chloro-2-methylphenyl)piperazin-1-yl]-14-pyrazolo[3,4-d]pyrimidin-3-yl]-14-(4-(5-chloro-2-methylphenyl)piperazin-1-yl]-14-pyrazolo[3,4-d]pyrimidin-3-yl]-14-(4-(5-chloro-2-methylphenyl)piperazin-1-yl]-14-pyrazolo[3,4-d]pyrimidin-3-yl]-14-(4-(5-chloro-2-methylphenyl)piperazin-1-yl]-14-pyrazolo[3,4-d]pyrimidin-3-yl]-14-(4-(	315	4-[4-(2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine
317 3-methyl-4-[4-(2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine 4-[44(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine 318 4-[44(5-chloro-2-methylphenyl)piperazin-1-yl]-3-methyl-1H-pyrazolo[3,4-d]pyrimidine 320 4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-methyl-1H-pyrazolo[3,4-d]pyrimidine 321 4-[44(5-chloro-2-methylphenyl)piperazin-1-yl]-6-methyl-1H-pyrazolo[3,4-d]pyrimidine 322 4-[44(5-chloro-2-methylphenyl)piperazin-1-yl]-6-methyl-1H-pyrazolo[3,4-d]pyrimidine 323 4-[44(5-chloro-2-methylphenyl)piperazin-1-yl]-6-methyl-1H-pyrazolo[3,4-d]pyrimidine 324 4-[44(5-chloro-2-methylphenyl)piperazin-1-yl]-6-methyl-1H-pyrazolo[3,4-d]pyrimidine 325 4-[44(5-chloro-2-methylphenyl)piperazin-1-yl]-3-(12-(methyloxy)ethyl)-1H-pyrazolo[3,4-d]pyrimidine 326 4-[44(5-chloro-2-methylphenyl)piperazin-1-yl]-3-([2-(methyloxy)ethyl)-1H-pyrazolo[3,4-d]pyrimidine 327 3-bromo-4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine 328 4-[44(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl]-14-(4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl]-14-(4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl]-14-(4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl]-14-pyrazolo[3,4-d]pyrimidin-3-yl]-14-(4-(5-chloro-2-methylphenyl)piperazin-1-yl]-14-pyrazolo[3,4-d]pyrimidin-3-yl]-14-(4-(5-chloro-2-methylphenyl)piperazin-1-yl]-14-pyrazolo[3,4-d]pyrimidin-3-yl]-14-pyrazolo[3,4-d]pyrimidin-3-yl]-14-(4-(5-chloro-2-methylphenyl)piperazin-1-yl]-14-pyrazolo[3,4-d]pyrimidin-3-yl]-14-(4-(5-chloro-2-methylphenyl)piperazin-1-yl]-14-pyrazolo[3,4-d]pyrimidin-3-yl]-14-(4-(5-chloro-2-methylphenyl)piperazin-1-yl]-14-pyrazolo[3,4-d]pyrimidin-3-yl]-14-(4-(5-chloro-2-methylphenyl)piperazin-1-yl]-14-pyrazolo[3,4-d]pyrimidin-3-yl]-14-(4-(5-chloro-2-methylphenyl)piperazin-1-yl]-14-pyrazolo[3,4-d]pyrimidin-3-yl]-14-(4-(	316	4-[4-(3-chlorophenyl)piperazin-1-yl]-3-methyl-1H-pyrazolo[3,4-d]pyrimidine
319 4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-methyl-1H-pyrazolo[3,4-d]pyrimidine 320 4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-methyl-6-phenyl-1H-pyrazolo[3,4-d]pyrimidine 321 4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-6-ethyl-1H-pyrazolo[3,4-d]pyrimidine 322 4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-6-ethyl-1H-pyrazolo[3,4-d]pyrimidine 323 4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-6-ethyl-1H-pyrazolo[3,4-d]pyrimidine 324 4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-phenyl-1H-pyrazolo[3,4-d]pyrimidine 325 4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-phenyl-1H-pyrazolo[3,4-d]pyrimidine 326 4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-phenyl-1H-pyrazolo[3,4-d]pyrimidine 327 3-bromo-4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine 328 4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine 329 4-[4-(3-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl	317	3-methyl-4-[4-(2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine
4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-methyl-6-phenyl-1H-pyrazolo[3,4-d]pyrimidine  4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-ethyl-1H-pyrazolo[3,4-d]pyrimidine  4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-6-methyl-1H-pyrazolo[3,4-d]pyrimidine  4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-6-ethyl-1H-pyrazolo[3,4-d]pyrimidine  4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-phenyl-1H-pyrazolo[3,4-d]pyrimidine  4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-phenyl-1H-pyrazolo[3,4-d]pyrimidine  4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-([2-(methyloxy)ethyl]oxy) methyl)-1H-pyrazolo[3,4-d]pyrimidine  4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine  4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl]-1H-	318	
4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-methyl-6-phenyl-1H-pyrazolo[3,4-d]pyrimidine  4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-ethyl-1H-pyrazolo[3,4-d]pyrimidine  4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-6-methyl-1H-pyrazolo[3,4-d]pyrimidine  4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-6-ethyl-1H-pyrazolo[3,4-d]pyrimidine  4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-phenyl-1H-pyrazolo[3,4-d]pyrimidine  4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-phenyl-1H-pyrazolo[3,4-d]pyrimidine  4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-([2-(methyloxy)ethyl]oxy) methyl)-1H-pyrazolo[3,4-d]pyrimidine  4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine  4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl]-1H-	319	4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-methyl-1H-pyrazolo[3,4-d]pyrimidine
djpyrimidine 4-{4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-ethyl-1H-pyrazolo[3,4-d]pyrimidine 322 4-{4-(5-chloro-2-methylphenyl)piperazin-1-yl]-6-ethyl-1H-pyrazolo[3,4-d]pyrimidine 323 4-{4-(5-chloro-2-methylphenyl)piperazin-1-yl]-6-ethyl-1H-pyrazolo[3,4-d]pyrimidine 324 4-{4-(5-chloro-2-methylphenyl)piperazin-1-yl]-6-(1-methylethyl-)-1H-pyrazolo[3,4-d]pyrimidine 325 4-{4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-phenyl-1H-pyrazolo[3,4-d]pyrimidine 326 4-{4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-({[2-(methyloxy)ethylloxyl)methyl-1H- pyrazolo[3,4-d]pyrimidine 327 3-bromo-4-{4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine 328 4-{4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine 329 4-{4-(4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine 330 4-{4-(4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine 331 4-{4-(3-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine 332 4-{4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine 333 4-{4-(4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-(3-(phenylmethyl)oxy)phenyl)-1H- pyrazolo[3,4-d]pyrimidine 335 4-{4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-(3-(phenylmethyl)oxy)phenyl)-1H- pyrazolo[3,4-d]pyrimidine 336 4-{4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-(3-(phenylmethyl)oxy)phenyl)-1H- pyrazolo[3,4-d]pyrimidine 336 4-{4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-(3-(phenylmethyl)oxy)phenyl)-1H- pyrazolo[3,4-d]pyrimidine 337 3-(4-(4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-(3-(phenylphenzin-1-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl]-3-(3-(4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-(3-(4-(4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-(3-(4-(4-(5-chloro-3-methylphenyl)piperazin-1-yl]-3-(3-(4-(4-(5-chloro-3-methylphenyl)piperazin-1-yl]-3-(3-(4-(4-(5-chloro-3-methylphenyl)piperazin-1-yl]-3-(3-(4-(4-(5-chloro-3-methylphenyl)piperazin-1-yl]-3-(3-(4-(4-(5-chloro-3-methylphenyl)piperazin-1-yl]-3-(3-(4-(4-(5-chloro-3-methylphenyl)piperazin-1-yl]-3-(3-(4-(4-(5	320	
322 4-{4-(5-chloro-2-methylphenyl)piperazin-1-yl]-6-methyl-1H-pyrazolo[3,4-d]pyrimidine 323 4-{4-(5-chloro-2-methylphenyl)piperazin-1-yl]-6-ethyl-1H-pyrazolo[3,4-d]pyrimidine 324 4-{4-(5-chloro-2-methylphenyl)piperazin-1-yl]-6-thyl-1H-pyrazolo[3,4-d]pyrimidine 325 4-{4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-(-(1-methylethyl)-1H-pyrazolo[3,4-d]pyrimidine 326 4-{4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-(-(2-(methyloxy)ethylloxy) methyl)-1H- pyrazolo[3,4-d]pyrimidine 327 3-bromo-4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine 328 4-{4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine 329 4-{4-(4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl)-pte-3-mine 330 4-{4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-amine 331 4-{4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-3-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-		d]pyrimidine
323 4-{4-(5-chloro-2-methylphenyl)piperazin-1-yl-16-ethyl-1H-pyrazolo[3,4-dlpyrimidine 4-(4-(5-chloro-2-methylphenyl)piperazin-1-yl-6-(1-methylethyl)-1H-pyrazolo[3,4-dlpyrimidine 325 4-(4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-phenyl-1H-pyrazolo[3,4-dlpyrimidine 4-(4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-({2-(methyloxy)ethyl)oxy}) methyl)-1H-pyrazolo[3,4-dlpyrimidine 327 3-bromo-4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-dlpyrimidine 328 4-(4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-dlpyrimidine 329 4-(4-(4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-dlpyrimidin-3-yl]-18-pyrazolo[3,4-dlpyrimidine 331 4-(4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-dlpyrimidine 331 4-(4-(3-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-dlpyrimidine 331 4-(4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-dlpyrimidine 331 4-(4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-dlpyrimidine 331 4-(4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-dlpyrimidine 331 4-(4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-dlpyrimidine 331 4-(4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-dlpyrimidine 333 4-(4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-dlpyrimidine 333 3-(4-(4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-dlpyrimidin-3-yl]-1H-pyrazolo[3,4-dlpy	321	4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-ethyl-1H-pyrazolo[3,4-d]pyrimidine
4.(4.(5-chloro-2-methylphenyl)piperazin-1-yl]-6-(1-methylethyl)-1H-pyrazolo[3,4-d]pyrimidine  325 4.(4.(5-chloro-2-methylphenyl)piperazin-1-yl]-3-phenyl-1H-pyrazolo[3,4-d]pyrimidine  326 4.(4.(5-chloro-2-methylphenyl)piperazin-1-yl]-3-([2-(methyloxy)ethyl)cyr)methyl)-1H-pyrazolo[3,4-d]pyrimidine  327 3-bromo-4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine  328 4.(4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl)phen  330 4.(4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-amine  331 4.(4-(3-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl)phen  332 4.(4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl)phen  333 4.(4-(3-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl)phen  334 4.(4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl)phen  335 4.(4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl)phen  336 4.(4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl)phen  337 3.(4-(4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl)phen  338 3.(4-(4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl]-1H-pyrazolo[3,4-d]pyrim	322	
djpyrimidine  4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-phenyl-1H-pyrazolo[3,4-d]pyrimidine  4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-([2-(methyloxy)ethyl]oxy) methyl)-1H- pyrazolo[3,4-d]pyrimidine  323	323	4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-6-ethyl-1H-pyrazolo[3,4-d]pyrimidine
4-(4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-({[2-(methyloxy)ethyl]oxy}) methyl)-1H- pyrazolo[3,4-d]pyrimidine 327 3-bromo-4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine 328 4-(4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine 329 4-(4-(4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl)pher 330 4-(4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidin-3- amine 331 4-(4-(3-chloro-phenyl)piperazin-1-yl]-3-ethyl-1H-pyrazolo[3,4-d]pyrimidin-3- 332 4-(4-(3-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl)pher 333 4-(4-(3-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl)pher 334 4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl)pher 335 3-(1,3-benzodioxol-5-yl)-4-(4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl]-1H-pyrazolo[3,4-d]-1-(5-chloro-2-methylphenylphenylphenylphenylphenylphenylpheny	324	d]pyrimidine
pyrazolo[3,4-d]pyrimidine  327 3-bromo-4-[44(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine  328 4[44(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine  329 4-[44(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl]-	325	4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-phenyl-1H-pyrazolo[3,4-d]pyrimidine
328 4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-11-pyrazolo[3,4-d]pyrimidine 329 4-[4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-11-pyrazolo[3,4-d]pyrimidin-3-yl)pher 330 4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-11-pyrazolo[3,4-d]pyrimidin-3-amine 331 4-[4-(3-chloro-2-methylphenyl)piperazin-1-yl]-11-pyrazolo[3,4-d]pyrimidin-3-331 3-[4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-11-pyrazolo[3,4-d]pyrimidin-3-yl)pher 333 4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-11-pyrazolo[3,4-d]pyrimidin-3-yl)pher 334 4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-13-(3-([phenylmethyl)oxyl)phenyl)-11- yprazolo[3,4-d]pyrimidine 335 3-(1,3-benzodioxol-5-yl)-4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-11-pyrazolo[3,4-d]pyrimidin-3-yl]-11-pyrazolo[3,4-d]pyrimidin-3-yl]-11-pyrazolo[3,4-d]pyrimidin-3-yl]-14-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-11-pyrazolo[3,4-d]pyrimidin-3-yl]-14-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-11-pyrazolo[3,4-d]pyrimidin-3-yl]-13-[4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-11-pyrazolo[3,4-d]pyrimidin-3-yl]-13-[4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-11-pyrazolo[3,4-d]pyrimidin-3-yl]-13-[4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-11-pyrazolo[3,4-d]pyrimidin-3-yl]-11-pyrazolo[3,4-d]pyrimidin-3-yl]-11-pyrazolo[3,4-d]pyrimidin-3-yl]-11-pyrazolo[3,4-d]pyrimidin-3-yl]-11-pyrazolo[3,4-d]pyrimidin-3-yl]-11-pyrazolo[3,4-d]pyrimidin-3-yl]-11-pyrazolo[3,4-d]pyrimidin-3-yl]-11-pyrazolo[3,4-d]pyrimidin-3-yl]-11-pyrazolo[3,4-d]pyrimidin-3-yl]-11-pyrazolo[3,4-d]pyrimidin-3-yl]-11-pyrazolo[3,4-d]pyrimidin-3-yl]-11-pyrazolo[3,4-d]pyrimidin-3-yl]-11-pyrazolo[3,4-d]pyrimidin-3-yl]-11-pyrazolo[3,4-d]pyrimidin-3-yl]-11-pyrazolo[3,4-d]pyrimidin-3-yl]-11-pyrazolo[3,4-d]-11-pyrazolo[3,4-d]-11-pyrazolo[3,4-d]-11-pyrazolo[3,4-d]-11-pyrazolo[3,4-d]-11-pyrazolo[3,4-d]-11-pyrazolo[3,4-d]-11-pyrazolo[3,4-d]-11-pyrazolo[3,4-d]-11-pyrazolo[3,4-d]-11-pyrazolo[3,4-d]-11-pyrazolo[3,4-d]-11-pyrazolo[3,4-d]-11-pyrazolo[3,4-d]-11-pyrazolo[3,4-d]-11-pyrazolo[3,4-d]-11-pyrazolo[3,4-d]-11-pyrazolo[3,4-d]-11-pyraz	326	pyrazolo[3,4-d]pyrimidine
329 4-{4-{4-{S-chloro-2-methylphenyl)piperazin-1-yl}-III-pyrazolo[3,4-d]pyrimidin-3-yl)pher 330 4-{4-{3-chloro-2-methylphenyl)piperazin-1-yl}-N-phenyl-III-pyrazolo[3,4-d]pyrimidin-3-anine 331 4-{4-{3-chloro-2-methylphenyl)piperazin-1-yl}-3-ethyl-III-pyrazolo[3,4-d]pyrimidine 332 4-{4-{5-chloro-2-methylphenyl)piperazin-1-yl}-3-st-tyl-III-pyrazolo[3,4-d]pyrimidine 333 3-{4-{4-{5-chloro-2-methylphenyl)piperazin-1-yl}-1H-pyrazolo[3,4-d]pyrimidin-3-yl]phen 334 4-{4-{5-chloro-2-methylphenyl)piperazin-1-yl}-1H-pyrazolo[3,4-d]pyrimidin-3-yl]phenyl)piperazin-1-yl]-III-pyrazolo[3,4-d]pyrimidin-3-yl]phenyl)piperazin-1-yl]-III-pyrazolo[3,4-d]pyrimidin-3-yl]phenyl)piperazin-1-yl]-III-pyrazolo[3,4-d]pyrimidin-3-yl]phenyl)piperazin-1-yl]-III-pyrazolo[3,4-d]pyrimidin-3-yl]phenyl)piperazin-1-yl]-III-pyrazolo[3,4-d]pyrimidin-3-yl]phenylpiperazin-1-yl]-III-pyrazolo[3,4-d]pyrimidin-3-yl]phenylpiperazin-1-yl]-III-pyrazolo[3,4-d]pyrimidin-3-yl]phenylpiperazin-1-yl]-III-pyrazolo[3,4-d]pyrimidin-3-yl]phenylpiperazin-1-yl]-III-pyrazolo[3,4-d]pyrimidin-3-yl]phenylpiperazin-1-yl]-III-pyrazolo[3,4-d]pyrimidin-3-yl]phenylpiperazin-1-yl]-III-pyrazolo[3,4-d]pyrimidin-3-yl]phenylpiperazin-1-yl]-III-pyrazolo[3,4-d]pyrimidin-3-yl]phenylpiperazin-1-yl]-III-pyrazolo[3,4-d]pyrimidin-3-yl]phenylpiperazin-1-yl]-III-pyrazolo[3,4-d]pyrimidin-3-yl]phenylpiperazin-1-yl]-III-pyrazolo[3,4-d]pyrimidin-3-	327	3-bromo-4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine
330 4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-N-phenyl-1H-pyrazolo[3,4-d]pyrimidin-3-amine 331 4-[4-(3-chlorophenyl)piperazin-1-yl]-3-ethyl-1H-pyrazolo[3,4-d]pyrimidine 332 4-[4-[5-chloro-2-methylphenyl)piperazin-1-yl]-3-ethyl-1H-pyrazolo[3,4-d]pyrimidin-3-333 3-[4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl]-1h-pyrazolo[3,4-d]pyrimidine 335 4-[4-[5-chloro-2-methylphenyl)piperazin-1-yl]-3-[3-(phenylmethyl)oxy]phenyl]-1H-pyrazolo[3,4-d]pyrimidine 336 4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl]-3-[4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl]-3-[4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl]-3-[4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl]-3-[4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl]-3-[4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl]-3-[4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl]-3-[4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl]-3-[4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl]-3-[4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl]-1H-pyrazolo[3,	328	4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-propyl-1H-pyrazolo[3,4-d]pyrimidine
amine  331 4-[4-(3-ehlorophenyl)piperazin-1-yl]-3-ethyl-1H-pyrazolo[3,4-d]pyrimidine  332 4-[4-(3-ehloro-2-(methyloxy)phenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl] phen  333 3-[4-[4-(5-ehloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl] phen  334 4-[4-(5-ehloro-2-methylphenyl)piperazin-1-yl]-13-(3-([phenylmethyl)oxy)phenyl)-1H- pyrazolo[3,4-d]pyrimidine  335 3-(1,3-benzodioxol-5-yl)-4-[4-(5-ehloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine  336 4-[4-(5-ehloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl] anil  337 3-(4-[4-(5-ehloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl] anil  338 3-(4-[4-(5-ehloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl] anil	329	4-{4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl}phenol
332 4-{4-{S-chloro-2-(methyloxy)phenyl piperazin-1-y }-3-ethyl-1H-pyrazolo[3,4-d]pyrimidin 333 3-{4-{4-{S-chloro-2-methylphenylpiperazin-1-y }-1H-pyrazolo[3,4-d]pyrimidin-3-yl)phen 334 4-{4-{S-chloro-2-methylphenylpiperazin-1-y }-3-{3-(phenylmethyl)oxy)phenyl}-1H- pyrazolo[3,4-d]pyrimidine 335 3-{1,3-beacodioxol-5-yl)-4-{4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine 336 4-{4-{S-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl] anil 337 3-{4-{4-{S-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl] anil 338 3-{4-{4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl] anil 338 3-{4-{4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl] anil	330	
332 4-{4-{S-chloro-2-(methyloxy)phenyl piperazin-1-y }-3-ethyl-1H-pyrazolo[3,4-d]pyrimidin 333 3-{4-{4-{S-chloro-2-methylphenylpiperazin-1-y }-1H-pyrazolo[3,4-d]pyrimidin-3-yl)phen 334 4-{4-{S-chloro-2-methylphenylpiperazin-1-y }-3-{3-(phenylmethyl)oxy)phenyl}-1H- pyrazolo[3,4-d]pyrimidine 335 3-{1,3-beacodioxol-5-yl)-4-{4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine 336 4-{4-{S-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl] anil 337 3-{4-{4-{S-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl] anil 338 3-{4-{4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl] anil 338 3-{4-{4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl] anil	331	4-[4-(3-chlorophenyl)piperazin-1-yl]-3-ethyl-1H-pyrazolo[3,4-d]pyrimidine
333 3-{4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl]-pher 334 4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-[3-[(phenylmethyl)oxy]phenyl]-1H- pyrazolo[3,4-d]pyrimidine 335 3-(1,3-benzodioxol-5-yl)-4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d] d pyrimidine 336 4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl]-nll 337 3-[4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl]-nll 338 3-[4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl]-nll	332	4-{4-[5-chloro-2-(methyloxy)phenyl]piperazin-1-yl}-3-ethyl-1H-pyrazolo[3,4-d]pyrimidine
pyrazolo[3,4-d]pyrimidine  335 3-(1,3-benzodioxol-5-yl)-4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine  336 4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidin  337 3-[4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl] anil  338 3-[4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl] anil  348 3-[4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl] anil  359 3-[4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl] anil  360 3-[4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl] anil  379 3-[4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl] anil  370 3-[4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl] anil  370 3-[4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl] anil  370 3-[4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl] anil  370 3-[4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl]-1H-pyrazolo[3,4-d]pyrimidin-3	333	3-{4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl}phenol
335 3-(1,3-benzodioxol-5-yl)-4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine 336 4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-(2-thienyl)-1H-pyrazolo[3,4-d]pyrimidin-3-37 3-[4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl)anil 338 3-[4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-	334	4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-{3-{(phenylmethyl)oxy]phenyl}-1H-pyrazolo[3,4-d]pyrimidine
336 4-[44-(5-chloro-2-methylphenyl)piperazin-1-yl]-3 (2-thienyl)-1H-pyrazolo[3,4-d]pyrimidin 337 3-[44-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl] sali 338 3-[44-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl]	335	3-(1,3-benzodioxol-5-yl)-4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-
337 3-{4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl)anih 338 3-{4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-	336	4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-(2-thienyl)-1H-pyrazolo[3,4-d]pyrimidine
338 3-{4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-		3-{4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl}aniline
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	Table 2a. Representative AKT Inhibitors	
Cmpd No.	Name	
339	4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-(4-methylphenyl)-1H-pyrazolo[3,4-d]pyrimidine	
340	N-(4-{4-(4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidin-3- yl}phenyl)acetamide	
341	4-[4-(3-chlorophenyl)-1,4-diazepan-1-yl]-3-ethyl-1H-pyrazolo[3,4-d]pyrimidine	
342	4-[5-(3-chlorophenyl)-2,5-diazabicyclo[2.2.1]hept-2-yl]-3-ethyl-1H-pyrazolo[3,4-d]pyrimidine	
343	4-(4-{3-chloro-4-[(2-morpholin-4-ylethyl)oxy]phenyl}piperazin-1-yl)-3-ethyl-1H- pyrazolo[3,4-d]pyrimidine	
344	methyl 1-(3-chlorophenyl)-4-(3-ethyl-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazine-2-carboxylate	
345	4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-(3-methylbut-2-en-1-yl)-1H-pyrazolo[3,4-d]pyrimidine	
346	4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-(trifluoromethyl)-1H-pyrazolo[3,4-d]pyrimidine	
347	methyl 4-(3-chlorophenyl)-1-(3-cthyl-1H-pyrazolo[3,4-d]pyrimidin-4-yl)pipcrazine-2- carboxylate	
348	4-(4-{3-chloro-4-[(2-piperidin-1-ylethyl)oxy]phenyl}piperazin-1-yl)-3-ethyl-1H- pyrazolo(3,4-d]pyrimidine	
349	4-[4-(3-chloro-2-methylphenyl)piperazin-1-yl]-3-(1-methylethyl)-1H-pyrazolo[3,4-d]pyrimidine	
350	1-(3-chlorophenyl)-4-(3-ethyl-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazine-2-carboxylic acid	
351	1-(3-chlorophenyl)-4-(3-ethyl-1H-pyrazolo[3,4-d]pyrimidin-4-yl)-N-methylpiperazine-2-carboxamide	
352	4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-(phenylmethyl)-1H-pyrazolo[3,4-d]pyrimidine	
353	4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-(2-methylpropyl)-1H-pyrazolo[3,4-d]pyrimidine	
354	4-(4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-[4-(methyloxy)phenyl]-1H-pyrazolo[3,4-d]pyrimidine	
355	4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-(4-fluorophenyl)-1H-pyrazolo[3,4-d]pyrimidine	
356	4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-[4-(phenyloxy)phenyl]-1H-pyrazolo[3,4-d]pyrimidine	
357	4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-{4-[(piperidin-4-ylmethyl)oxy]phenyl}-   11-pyrazolo[3,4-d]pyrimidine	
358	1-(3-chlorophenyl)-N-[2-(dimethylamino)ethyl]-4-(3-ethyl-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazine-2-carboxamide	
359	4-[4-(5-chloro-2-methyl-3-morpholin-4-ylphenyl)piperazin-1-yl]-3-ethyl-1H-pyrazolo[3,4-d]pyrimidine	
360	4-(3-chlorophenyl)-1-(3-ethyl-1H-pyrazolo[3,4-d]pyrimidin-4-yl)-N-methylpiperazine-2-carboxamide	
361	4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-[2-(methyloxy)phenyl]-1H-pyrazolo[3,4-d]pyrimidine	
362	4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-pyridin-4-yl-1H-pyrazolo[3,4-d]pyrimidine	
363	4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-[3-(methyloxy)phenyl]-1H-pyrazolo[3,4-d]pyrimidine	

	Table 2a. Representative AKT Inhibitors	
Cmpd	Name	
No.	4-{4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-	
364	vl}benzonitrile	
365	[5-chloro-3-[4-(3-ethyl-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-2- (methyloxy)phenyl]methanol	
366	methyl 5-chloro-3-[4-(3-ethyl-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-2- (methyloxy)benzoate	
367	(2E)-3- {4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidin-3- yl}prop-2-enoic acid	
368	3-{4-[4-(5-chloro-2-methylphenyl)pipcrazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidin-3- yl}propanoic acid	
369	3-{4-[4-(5-chtoro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidin-3- yl}propan-1-ol	
370	methyl (2E)-3-{4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl}prop-2-enoate	
371	4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-{4-[(2-morpholin-4-ylethyl)oxy]phenyl}- l H-nyrazolo[3,4-d]pyrimidine	
372	5-chloro-N-[2-(dimethylamino)ethyl]-3-[4-(3-ethyl-1H-pyrazolo[3,4-d]pyrimidin-4-	
373	4-(4-{5-chloro-2-(methyloxy)-3-[(4-methylpiperazin-1-yl)carbonyl]phenyl}piperazin-1-yl)-	
374	2-(dimethylamino)ethyl 5-chloro-3-[4-(3-ethyl-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-  1-yl]-2-(methyloxy)benzoate	
375	1-[5-chloro-3-[4-(3-ethyl-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-2-	
376	N'-{[5-chloro-3-[4-(3-ethyl-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-2-	
377	[1-(3-chlorophenyl)-4-(3-cthyl-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-2-yl]methanol	
378	3-[(4-{4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-	
379	2 - Line 4 [4 (2 ethyl-1 H-myrazolo[3 4-d]pyrimidin-4-y])piperazin-1-yl]-5-methylphenol	
380	1-(3-chlorophenyl)-4-(3-ethyl-1H-pyrazolo[3,4-d]pyrimidin-4-yl)-N-(1-methylpiperioin-4-	
381	1-(3-chlorophenyl)-4-(3-ethyl-1H-pyrazolo[3,4-d]pyrimidin-4-yl)-N-(2-morpholin-4-	
382	2-{[5-chloro-3-[4-(3-ethyl-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-2- (methyloxy\phenylloxy}-N,N-dimethylethanamine	
383	3-{5-chloro-3-[4-(3-ethyl-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-2-	
384	N'-{5-chloro-3-[4-(3-ethyl-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-2-	
385	1,1-dimethylethyl (2E)-3-{4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-dlmyrimidin-3-yl)prop-2-enoate	
386	3-({2-chloro-4-[4-(3-ethyl-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-5- methylphenyl)oxy}-N.N-dimethylpropan-1-amine	
387	2-({2-chloro-4-[4-(3-ethyl-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-5- methylphenyl oxy)-N.N-dimethylethanamine	
388	4-{4-{5-chloro-2-methyl-4-(methyloxy)phenyl]piperazin-1-yl}-3-ethyl-1H-pyrazolo[3,4-d]pyrimidine	

	Table 2a. Representative AKT Inhibitors
Cmpd No.	Name
389	4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-(4-methylpiperazin-1-yl)-1H-pyrazolo[3,4-d]pyrimidine
390	3-(4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl}-N,N-diethylprop-2-yn-1-amine
391	3-{4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidin-3-yl}prop- 2-yn-1-ol
392	4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-(piperidin-4-ylmethyl)-1H-pyrazolo[3,4-d]pyrimidine
393	phenylmethyl (3aR,6aS)-5-(4-[4-{5-chloro-2-methylphenyl)piperazin-1-yl}-1H- pyrazolo[3,4-d]pyrimidin-3-yl} methylidene)hexahydrocyclopenta[c]pyrrole-2(1H)- carboxylate
394	4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-[(E)-(3aR,6aS)-hexahydrocyclopenta[c]pyrrol-5(1H)-ylidenemethyl]-1H-pyrazolo[3,4-d]pyrimidine
395	4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-(3-pyrrolidin-1-ylprop-1-yn-1-yl)-1H-pyrazolo[3,4-d]pyrimidine
396	4-[4-(3-chloro-2-methylphenyl)piperazin-1-yl]-3-[3-(4-methylpiperazin-1-yl)prop-1-yn-1-yl]-1H-pyrazolo[3,4-d]pyrimidine
397	3-{4-{4-(5-chloro-2-methylphenyl)pipcrazin-1-yl}-1H-pyrazolo[3,4-d]pyrimidin-3-yl}-N,N-diethylpropan-1-amine
398	4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-(3-pyrrolidin-1-ylpropyl)-1H-pyrazolo[3,4-d]pyrimidine
399	4-[4-(5-chloro-2-methylphenyl)piperazin-1-yl]-3-(1,2,3,6-tetrahydropyridin-4-yl)-1H- pyrazolo[3,4-d]pyrimidine
400	3-{5-chloro-3-[4-(3-ethyl-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-2- methylphenyl}-N,N-diethylpropan-1-amine
401	4-{4-[5-chloro-2-methyl-3-(3-pyrrolidin-1-ylpropyl)phenyl]piperazin-1-yl}-3-ethyl-1H- pyrazolo[3,4-d]pyrimidine and
	a single geometric isomer, stereoisomer, racemate, enantiomer, or diastereomer, thereof and optionally as a pharmaceutically acceptable salt, solvate, or hydrate thereof.

	Table 2b. Additional Representative AKT Inhibitors
Entry	Name
ı	[1-(3-bromo-1 <i>H</i> -pyrazolo[3,4-d]pyrimidin-4-yl)piperidin-4-yl](4-chlorophenyl)methanol
2	2-{[[1-(3-bromo-1 <i>H</i> -pyrazolo[3,4-d]pyrimidin-4-yl]piperidin-4-yl](4- chlorophenyl)methylloxy}- <i>N</i> . <i>N</i> -dimethylethanamine
3	3-[[[1-(3-bromo-1 <i>H</i> -pyrazolo[3,4-d]pyrimidin-4-yl]piperidin-4-yl](4-chlorophenyl)methyl]oxy}- <i>N</i> , <i>N</i> -dimethylpropan-1-amine
4	3-bromo-4-{4-[(4-bromophenyl)methyl]piperazin-1-yl}-1H-pyrazolo[3,4-d]pyrimidine
5	[4-(3-bromo-1 <i>H</i> -pyrazolo[3,4-d]pyrimidin-4-yl)-1-[(4-chlorophenyl)methyl]piperazin- 2-yl; methanol
6	M-[[1-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperidin-4-yl](4-
7	3-bromo-4-(4-[[4-(],1-dimethylethyl)phenyl]methyl}piperazin-1-yl)-1H-pyrazolo[3,4-dlovrimidine
8	4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)-1-[(4-chlorophenyl)methyl]piperazin-

	Table 2b. Additional Representative AKT Inhibitors
Entry	Name
9	2-[4-(3-bromo-  <i>H</i> -pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]-2-(4-chlorophenyl)- <i>N</i> -[2-(dimethylamino)ethyl]acetamide
10	N-[1-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperidin-4-yl]-N-(4-chlorophenyl)-
11	3-bromo-4(4-[[4-(trifluoromethyl)phenyl]methyl}piperazin-1-yl)-1 <i>H</i> -pyrazolo[3,4-d]pyrimidine
12	w]-[1-(3-bromo-1 <i>H</i> -pyrazolo[3,4-d]pyrimidin-4-yl]piperidin-4-yl]- <i>N</i> -(4-chlorophenyl)- <i>N</i> -[2-(dimethylamino)ethyl]urea
13	N-[[1-(3-bromo-1/I-pyrazolo[3,4-d]pyrimidin-4-yl]piperidin-4-yl](4- chlorophenyl)methyl]-N-[2-(dimethylamino)ethyl]urea
14	2-[4-(3-bromo-1 <i>H</i> -pyrazolo[3,4-d]pyrimidin-4-yl)-2-oxopiperazin-1-yl]-2-(4-
15	2-(dimethylamino)ethyl [1-(3-bromo-1 <i>H</i> -pyrazolo[3,4-d]pyrimidin-4-yl)piperidin-4-
16	3-bromo-4-{4-[(4-chloro-3-fluorophenyl)methyl]piperazin-1-yl}-1H-pyrazolo[3,4-dlovrimidine
17	3-bromo-4-{4-[(4-chloro-2-fluorophenyl)methyl]piperazin-1-yl}-1H-pyrazolo[3,4-
18	W-[1-(3-bromo-1 <i>H</i> -pyrazolo[3,4-d]pyrimidin-4-yl)piperidin-4-yl]- <i>N</i> -(4-chlorophenyl)-  N-M-diethylethane-1,2-diamine
19	3-bromo-4-{4-[(4-chlorophenyl)methyl]piperazin-1-yl}-1H-pyrazolo[3,4-d]pyrimidine
20	[1-(3-bromo-1 <i>H</i> -pyrazolo[3,4-d]pyrimidin-4-yl]piperidin-4-yl](4-fluorophenyl)methanone
21	Nucropensylmetanone   N-[1-(3-bromo-1 H-pyrazolo[3,4-d]pyrimidin-4-yl)piperidin-4-yl](4-chloropheny) methyl-N-N-diethyl-N-methylethane-1,2-diamine
22	[1-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperidin-4-yl](4-fluorophenyl)methanol
23	3-bromo-4-(4-{[2-fluoro-4-(trifluoromethyl)phenyl]methyl}piperazin-1-yl)-1 <i>H</i> -pyrazolo[3,4-d]pyrimidine
24	N-[1-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl]piperidin-4-yl]-N-(4-chlorophenyl)-
25	2-{[[1-(3-bromo-1/I-pyrazolo[3,4-d]pyrimidin-4-yl)piperidin-4-yl](4-fluorophenyl)methyl]oxy}-N,N-dimethylethanamine
26	M-[[1-(3-bromo-1 <i>H</i> -pyrazolo[3,4-d]pyrimidin-4-yl]piperidin-4-yl](4- chlorophenyl)methyl]- <i>N</i> -3, <i>N</i> -3diethyl-beta-alaninamide
27	3-bromo-4-{4-[(3,4-dichlorophenyl)methyl]piperazin-1-yl}-1H-pyrazolo[3,4-
28	N-[1-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperidin-4-yl]-N-(4-chlorophenyl)-
29	N-[2-(dimethylamino)etny]etnaneuramue N-[1-(3-bromo-1 <i>H</i> -pyrazolo[3,4-d]pyrimidin-4-yl)piperidin-4-yl]-N-(4-chlorophenyl)-2- (diethylamino)ethanesulfonamide
30	4-[4-(biphenyl-4-ylmethyl)piperazin-1-yl]-3-bromo-1H-pyrazolo[3,4-d]pyrimidine
31	3-bromo-4-{(3S)-4-[(4-chlorophenyl)methyl]-3-methylpiperazin-1-yl}-1H-pyrazolo[3,4-
32	3-bromo-4-(4-{[4-(methyloxy)phenyl]methyl}piperazin-1-yl)-1 <i>H</i> -pyrazolo[3,4-d]pyrimidine
33	ajpyrimione 4-(3-bromo-1 <i>H</i> -pyrazolo[3,4-d]pyrimidin-4-yl)- <i>N</i> -[3- (trifluoromethyl)phenyl]piperazine-1-carboxamide
34	3-bromo-4-{4-[(4-fluorophenyl)methyl]piperazin-1-yl}-1H-pyrazolo[3,4-d]pyrimidine
35	N-[1-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperidin-4-yl]-N-(4-
	3-bromo-4-[4-(2,3-dihydro-1,4-benzodioxin-6-ylmethyl)piperazin-1-yl]-1H-

	Table 2b. Additional Representative AKT Inhibitors	
Entry	Name	
37	4-[4-(1,3-benzodioxol-5-ylmethyl)piperazin-1-yl]-3-bromo-1H-pyrazolo[3,4-	
38	d]pyrimidine [1-(3-bromo-1 <i>H</i> -pyrazolo[3,4-d]pyrimidin-4-yl)piperidin-4-yl](4-	
39	chlorophenyl)methanone 3-bromo-4-(4-{[4-(phenyloxy)phenyl]methyl}piperazin-1-yl)-1H-pyrazolo[3,4-	
40	d]pyrimidine 3-bromo-4-{4-[(3,4-dichlorophenyl)methyl]piperidin-1-yl}-1 <i>H</i> -pyrazolo[3,4-	
41	d]pyrimidine 4-{[4-(3-bromo-1 <i>H</i> -pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]methyl}- <i>N,N</i> -	
42	dimethylaniline methyl 4-{[4-(3-bromo-1 <i>H</i> -pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-	
43	yl]methyl}benzoate 3-bromo-4-{4-[(2E)-3-phenylprop-2-enoyl]piperazin-1-yl}-1H-pyrazolo[3,4-	
44	d]pyrimidine 1-(3-bromo-1 <i>H</i> -pyrazolo[3,4-d]pyrimidin-4-yl)-4-[(4-chlorophenyl)methyl]- <i>N</i> -[3- (diethylamino)propyl]piperidine-4-carboxamide	
45	3-bromo-4-{4-[(2-bromophenyl)methyl]piperazin-1-yl}-1H-pyrazolo[3,4-d]pyrimidine	
46	3-bromo-4-{4-[(2-chlorophenyl)methyl]piperazin-1-yl}-1H-pyrazolo[3,4-d]pyrimidine	
47	3-bromo-4-{4-[(2,4-dichlorophenyl)methyl]piperazin-1-yl}-1 <i>H</i> -pyrazolo[3,4-d]pyrimidine	
48	3-bromo-4-{4-[(2-chloro-4-fluorophenyl)methyl]piperazin-1-yl}-1H-pyrazolo[3,4-	
49	1-(3-bromo-1 H-pyrazolo[3,4-d]pyrimidin-4-yl)-4-(4-chlorophenyl)-N-[3-   (diethylamino)propyl]piperidine-4-carboxamide	
50	3-bromo-4-[4-(phenylmethyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine	
51	2-[4-(3-bromo-1 <i>H</i> -pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]- <i>N</i> -pyridin-2-ylacetamide	
52	3-bromo-4-[4-(1H-imidazol-2-ylmethyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine	
53	3-bromo-4-(4-{[3-(phenyloxy)phenyl]methyl}piperazin-1-yl)-1H-pyrazolo[3,4-d]pyrimidine	
54	3-bromo-4-{4-[(3-methylphenyl)methyl]piperazin-1-yl}-1H-pyrazolo[3,4-d]pyrimidine	
55	3-{[4-(3-bromo-1 <i>H</i> -pyrazolo[3,4-d]pyrimidin-4-yl]piperazin-1-yl]methyl}benzonitrile	
56	3-bromo-4-(4-[(2-chloro-6-fluorophenyl)methyl]piperazin-1-yl}-1H-pyrazolo[3,4-d]pyrimidine	
57	3-bromo-4-[4-(1-phenylethyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine	
58	3-bromo-4-[4-(pyridin-4-ylmethyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine	
59	I-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)-N-(4-chlorophenyl)piperidin-4-amine	
60	3-bromo-4-[4-(pyridin-3-ylmethyl)piperazin-1-yl]-1 <i>H</i> -pyrazolo[3,4-d]pyrimidine	
61	3-bromo-4-(4-{[2,3,4-tris(methyloxy)phenyl]methyl)piperazin-1-yl)-1 <i>H</i> -pyrazolo[3,4-d]pyrimidine	
62	a)pyrimidine 3-bromo-4-[4-{{3-{(phenylmethyl)oxy]phenyl}methyl)piperazin-1-yl]-1H-pyrazolo[3,4-d)pyrimidine	
63	3-bromo-4-[4-(naphthalen-1-ylmethyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine	
64	3-bromo-4-(4-{[5-(4-chlorophenyl)furan-2-yl]methyl}piperazin-1-yl)-1 <i>H</i> -pyrazolo[3,4-d]pyrimidine	

	Table 2b. Additional Representative AKT Inhibitors
Entry	Name
65	3-bromo-4-[4-({4-[(4-fluorophenyl)oxy]-3-nitrophenyl} methyl)piperazin-1-yl]-1H- pyrazolo[3,4-d]pyrimidine
66	3-bromo-4-[4-(furan-2-ylcarbonyl)piperazin-1-yl]-l <i>H</i> -pyrazolo[3,4-d]pyrimidine
67	3-bromo-4-[4-(1 <i>H</i> -indol-6-ylcarbonyl)piperazin-1-yl]-1 <i>H</i> -pyrazolo[3,4-d]pyrimidine
68	3-bromo-4-{4-[2-(2-thienyl)ethyl]piperazin-1-yl}-1H-pyrazolo[3,4-d]pyrimidine
69	3-bromo-4-[4-(3-pyrrolidin-1-ylpropyl)piperazin-1-yl]-1 <i>H</i> -pyrazolo[3,4-d]pyrimidine
70	3-bromo-4-[4-(cyclohexylmethyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine
71	3-bromo-4-{4-[(10-chloroanthracen-9-yl)methyl]piperazin-1-yl}-1H-pyrazolo[3,4-d]pyrimidine
72	3-bromo-4-[4-(1-methylpropyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine
73	4-(4-{[4,6-bis(methyloxy)pyrimidin-2-yl]methyl}piperazin-1-yl)-3-bromo-1 <i>H</i> -pyrazolo[3,4-d]pyrimidine
74	3-bromo-4-{4-[2-(methyloxy)ethyl]piperazin-1-yl}-1H-pyrazolo[3,4-d]pyrimidine
75	3-bromo-4-[4-(2-morpholin-4-yl-2-oxoethyl)piperazin-1-yl]-1H-pyrazolo[3,4-d]pyrimidine
76	3-bromo-4-{4-[3-(methyloxy)propyl]piperazin-1-yl}-1H-pyrazolo[3,4-d]pyrimidine
77	4-{4-[4-(6-bis(methyloxy)pyrimidin-2-yl](phenyl)methyl]piperazin-1-yl}-3-bromo-1 <i>H</i> -pyrazolo(3,4-d]pyrimidine
78	S-bromo-4-[4-(6,7,8,9-etrahydro-5H-benzocyclohepten-5-yl]piperazin-1-yl]-1H- pyrazolo[3,4-d]pyrimidine
79	3-bromo-4-[4-[(4-[(phenylmethyl)oxy]phenyl]methyl)piperazin-1-yl]-1H-pyrazolo[3,4-
80	3-bromo-4-[4-({3-chloro-4-[(phenylmethyl)oxy]phenyl}methyl)piperazin-1-yl]-1H-
81	4-{[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl]piperazın-1-yl]metnyl}-//-(3-
82	morphonin-4-ypiopy)derizaniae 4-{[4-(3-bromo-1 <i>H</i> -pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]methyl}- <i>N</i> -{3- (methyloxy)propyl]benzamide
83	2-[((4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)-1-[(4-
84	3-bromo-4-[4-((4-(l4-chlorophenyl))oxy]-3-nitrophenyl)metnyl)piperaziii-1-yl]-171-
85	2-[4-(3-bromo-1 <i>H</i> -pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl]- <i>N</i> , <i>N</i> -
86	dimetnylacetamic 2-{[(R)-[1-(3-bromo-1 <i>H</i> -pyrazolo[3,4-d]pyrimidin-4-yl)piperidin-4-yl](4-chlorophenyl)methyl]oxy}- <i>N</i> , <i>N</i> -dimethylethanamine
87	N-(4-bromo-3-fluorophenyl)-N-[1-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-
88	2-(I(R)-(4-chlorophenyl)[1-(3-ethyl-1H-pyrazolo[3,4-d]pyrimidin-4-y1)piperidin-4-
89	yl]methyl}oxy)-N,N-dimethylethanamine 2-{[(S)-[1-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperidin-4-yl](4-
90	chlorophenyl)methyl[0xy]-N,N-dimethylethanamine  3-bromo-4-(4-{(R)-(4-chlorophenyl)[(2-pyrrolidin-1-ylethyl)oxy]methyl}piperidin-1-
	yl)-1H-pyrazolo[3,4-d]pyrimidine 1-[1-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperidin-4-yl]-1-(4-chlorophenyl)-4-
91	(dimethylamino)butan-1-ol 2-{[(R)-[1-(3-bromo-1 <i>H</i> -pyrazolo[3,4-d]pyrimidin-4-yl)piperidin-4-yl](4-chloro-3-
92	fluorophenyl)methyl]oxy]-N,N-dimethylethanamine

	Table 2b. Additional Representative AKT Inhibitors	
Entry	Name	
93	3-bromo-4-(4-((R)-(4-chlorophenyl)[(2-piperidin-1-ylethyl)oxy]methyl)piperidin-1-yl)- 1H-pyrazolo[3,4-d]pyrimidine	
94	4-[1-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperidin-4-yl]-4-(4-chlorophenyl)- N,N-dimethylbutan-1-amine	
95	3-bromo-4-(4-{(R)-(4-chlorophenyl)[(2-morpholin-4-ylethyl)oxy]methyl}piperidin-1-yl}- H-pyrazolo[3,4-d]pyrimidine	
96	1-[1-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperidin-4-yl]-1-(4-fluorophenyl)-N-	
97	1-[1-(3-bromo-1 <i>H</i> -pyrazolo[3,4-d]pyrimidin-4-yl]piperidin-4-yl]-1-(4-fluorophenyl)- <i>N</i> -methyl- <i>N</i> -(pyridin-2-ylmethyl)methanamine	
98	4-{{{[1-(3-bromo-1 <i>H</i> -pyrazolo[3,4-d]pyrimidin-4-yl)piperidin-4-yl](4-fluorophenyl)methyl}(methyl)amino]methyl}- <i>N</i> , <i>N</i> -dimethylaniline	
99	[4-(3-bromo-1H-pyrazolo[3,4-d]pyrimidin-4-yl)piperazin-1-yl](1H-indol-6-yl)methanol	
100	3-bromo-4-(4-{(R)-(4-chloro-3-fluorophenyl)[(2-pyrrolidin-1-ylethyl)oxy]methyl}piperidin-1-yl)-1 H-pyrazolo[3,4-d]pyrimidine	
101	3-bromo-4-{4-[(4-chlorophenyl)oxy]piperidin-1-yl}-1H-pyrazolo[3,4-d]pyrimidine	
102	2-{[(R)-[1-(3-bromo-1 <i>H</i> -pyrazolo[3,4-d]pyrimidin-4-yl]piperidin-4-yl](4- chlorophenyl)methyl]oxy}- <i>N</i> , <i>N</i> -diethylethanamine	
103	2-{[1-(3-bromo-1 <i>H</i> -pyrazolo[3,4-d]pyrimidin-4-yl)piperidin-4-yl]oxy}-5-chloro- <i>N</i> -(2-pyrolidin-1-ylethyl)aniline and	
	a single geometric isomer, stereoisomer, racemate, enantiomer, or diastereomer, thereof and optionally as a pharmaceutically acceptable salt, solvate, or hydrate thereof.	

	Table 3a. Representative c-MET Inhibitors	
Cmpd No.	Name	
ı	N-(4-fluorophenyl)-N-[3-fluoro-4-(7H-pyrrolo[2,3-d]pyrimidin-4-yloxy)phenyl]propanediamide	
2	N-(4-fluorophenyl)-N-[3-fluoro-4-(7H-pyrrolo[2,3-d]pyrimidin-4-yloxy)phenyl]cyclopropane-	
3	N-({[3-fluoro-4-(7H-pyrrolo[2,3-d]pyrimidin-4-yloxy)phenyl]amino}carbonothioyl)-2-	
4	M-(4-fluorophenyl)-M-(4-{[1-(tetrahydro-2H-pyran-2-yl)-1H-pyrazolo[3,4-d]pyrimidin-4-yl]oxy]phenyl)cyclopropane-1,1-dicarboxamide	
5	2-phenyl-N-{[(4-{[1-(tetrahydro-2 <i>H</i> -pyran-2-yl)-1 <i>H</i> -pyrazolo[3,4-d]pyrimidin-4-	
6	N-(4-fluorophenyl)-N-[4-(1H-pyrazolo[3,4-d]pyrimidin-4-yloxy)phenyl]cyclopropane-1,1-dicarboxamide	
7	2-phenyl-N-([[4-(1H-pyrazolo[3,4-d]pyrimidin-4-yloxy)phenyl]amino}carbonothioyl)acetamide	
8	N-(4-fluorophenyl)-N'-(4-{[9-(tetrahydro-2H-pyran-2-yl)-9H-purin-6- ylloxy)phenyl)cyclopropane-1,1-dicarboxamide	
9	2-phenyl-N-{[(4-{[9-(tetrahydro-2H-pyran-2-yl)-9H-purin-6-yl]oxy}phenyl)amino]carbonothioyl}acetamide	
10	N-(4-fluorophenyl)-N-[4-(9H-purin-6-yloxy)phenyl]cyclopropane-1,1-dicarboxamide	
11	2-phenyl-N-({[4-(9H-purin-6-yloxy)phenyl]amino}carbonothioyl)acetamide	
12	N-{3-fluoro-4-[(6-{[(2-morpholin-4-ylethyl)amino]carbonyl}-7H-pytrolo[2,3-d]pyrimidin-4-yl)oxy]phenyl}-N-(4-fluorophenyl)cyclopropane-1,1-dicarboxamide and	

	Table 3a. Representative c-MET Inhibitors
Cmpd No.	Name
110.	a single geometric isomer, stereoisomer, racemate, enantiomer, or diastereomer, thereof and optionally as a pharmaceutically acceptable salt, solvate, or hydrate thereof.

	Table 3b. Additional Representative c-MET Inhibitors	
Entry	Name	
1	M-[((3-fluoro-4-[(6-(methyloxy)-7-{[(3aR,6aS)-octahydrocyclopenta[c]pyrrol-5- ylmethyl]oxy}quinazolin-4-yl)oxy]phenyl}amino)carbonothioyl}-2-phenylacetamide	
2	N-{[(3-fluoro-4-{[7-({[(3aR,6aS)-2-methyloctahydrocyclopenta[c]pyrrol-5-yl]methyl}oxy)-6- (methyloxy)quinazolin-4-yl]oxy}phenyl]amino]carbonothioyl}-2-phenylacetamide	
3	N-{[(4-{[6,7-bis(methyloxy)quinolin-4-yl]oxy}-3-	
4	1 (4-(f6.7-bis(methyloxy)quinolin-4-ylloxy)-3-fluorophenyl)imidazolidin-2-one	
5	1-(4-{[6,7-bis(methyloxy)quinolin-4-yl]oxy}-3-fluorophenyl)-3-(phenylmethyl)imidazolidin-	
6	2-one 1-(4-{[6,7-bis(methyloxy)quinolin-4-yl]oxy}-3-fluorophenyl)-3-(phenylacetyl)imidazolidin-2-one	
7	about 664 (66.7 bis/mathylays)quinalin-4-ytlays)-3-fluoronhenyl)aminal(oxo)acetate	
8	N-{[(4-{[6,7-bis(methyloxy)quinazolin-4-yl]amino}-3-fluorophenyl)aminojcarbonotnioyl}-2-	
9	N-(4-{[6,7-bis(methyloxy)quinolin-4-yl]oxy}-3-fluorophenyl)-N-methyl-N-(2-	
10	N-(4-{[6,7-bis(methyloxy)quinolin-4-yl]oxy}-3-fluorophenyl)-3-{phenylmethyl}-1,2,4-	
11	1-(4-{[6,7-bis(methyloxy)quinolin-4-yl]oxy}-3-fluorophenyl)piperidin-2-one	
12	N-(4-{[6,7-bis(methyloxy)quinolin-4-yl]oxy}-3-fluorophenyl)-N- (phenylmethyl)ethanediamide	
13	N/4 (16 7-bis(methyloxy)quinolin-4-ylloxy)-3-fluorophenyl)-4-phenyl-1,3-thiazol-2-amine	
14	N-(4-{[6,7-bis(methyloxy)quinolin-4-yl]oxy}-3-fluorophenyl)-N-(2-	
15	W (4 (16.7 bis/methyloxy)quinolin-4-ylloxy}-3-fluorophenyl)-1-phenylmethanesulfonamide	
16	1 N/ (4 (16 7 b) - (	
17	4 (f6.7 bis(methyloxy)quinolin-4-ylloxy}-3-fluoro-N-(phenylmethyl)benzenesuironamide	
18	4-{[6,7-bis(methyloxy)quinolin-4-yl]oxy}-3-fluoro-N-methyl-N-	
19	4. (16.7-bis(methyloxy)quinolin-4-ylloxy}-3-fluoro-N-(2-phenylethyl)benzenesulfonamide	
20	4-{[6,7-bis(methyloxy)quinolin-4-yl]oxy}-3-fluoro-N-methyl-N-(2-	
21	4 (16.7 bis/methyloxy)quinolin-4-ylloxy)-3-fluoro-N-(3-phenylpropyl)benzenesulfonamide	
22	1.4-/(6.7-bis/methyloxy)quinolin-4-ylloxy}-3-fluorophenyl)pyrrolidin-2-one	
23	4_([6.7-bis(methyloxy)quinolin-4-ylloxy)phenyl (phenylmethyl)carbamate	
24	4-(16.7-bis(methyloxy)quinolin-4-ylloxy)phenyl (2-phenylethyl)carbamate	
25	4-{[6,7-bis(methyloxy)quinolin-4-yl]oxy}-3-fluoro-N-methyl-N-(3-	
26	N (4. (16.7-bis(methyloxy)quinolin-4-ylloxy)-3-fluorophenyl)-N'-phenylethanediamide	
27	N-{[(3-fluoro-4-{[7-{[(2-methyloctahydrocyclopenta[c]pyrrol-5-yl)methyl]oxy}-6-	
28	N-[(Z)-[(4-{[6,7-bis(methyloxy)quinolin-4-yl]oxy}-3-fluorophenyl)amino](imino)methyl]-2- phenylacetamide	
29	4-{{6,7-bis(methyloxy)quinolin-4-yl]oxy}-3-fluoro- <i>N</i> -{2- (phenyloxy)ethyl]benzenesulfonamide	

	Table 3b. Additional Representative c-MET Inhibitors	
Entry	Name	
30	N,N-(4-{[6,7-bis(methyloxy)quinolin-4-yl]oxy}-3-fluorophenyl)-bis-(3-phenylpropane-1-sulfonamide)	
31	N-(4-{[6,7-bis(methyloxy)quinolin-4-yl]oxy}-3-fluorophenyl)-3-phenylpropane-1- sulfonamide	
32	N2-{(4-{[6,7-bis(methyloxy)quinolin-4-yl]oxy}-3-fluorophenyl)sulfonyl]-N1- phenylgjycinamide	
33	N-(6-1(6.7-his(methyloxy)quinolin-4-ylloxy)pyridin-3-yl)-2-phenylacetamide	
34	N-{[(6-{[6,7-bis(methyloxy)quinolin-4-yl]oxy}pyridin-3-yl)amino]carbonothioyl}-2-	
35	6-{[6,7-bis(methyloxy)quinolin-4-yl]oxy}-1,3-benzothiazol-2-amine	
36	6-{[6,7-bis(methyloxy)quinolin-4-yl]oxy}-5-fluoro-1,3-benzothiazol-2-amine	
37	N-(6-{[6,7-bis(methyloxy)quinolin-4-yl]oxy}-5-fluoro-1,3-benzothiazol-2-yl)-2- phenylacetamide	
38	N-(4-([6,7-bis(methyloxy)quinolin-4-yl]oxy}-3-fluorophenyl)-N-(2-morpholin-4- ylethyl)ethanediamide	
39	henzyl-{[4-(6,7-dimethoxy-quinolin-4-yloxy)-3-fluoro-phenylcarbamoyl]-methyl}-carbamic acid tert-butyl ester	
40	N1-(4-{[6,7-bis(methyloxy)quinolin-4-yl]oxy}-3-fluorophenyl)-N2- (phenylmethyl)glycinamide	
41	/N2-acetyl-N1-(4-[[6,7-bis(methyloxy)quinolin-4-yl]oxy}-3-fluorophenyl)-N2- (phenylmethyl)glycinamide	
42	N-(6-{[6,7-bis(methyloxy)quinolin-4-yl]oxy}-1,3-benzothiazol-2-yl)-2-phenylacetamide	
43	benzyl-{[6-(6,7-dimethoxy-quinolin-4-yloxy)-pyridin-3-ylcarbamoyl]-methyl}-carbamic acid tert-butyl ester	
44	N1-(6-{[6,7-bis(methyloxy)quinolin-4-y1]oxy}pyridin-3-yl)-N2-(phenylmethyl)glycinamide	
45	N2-acetyl-N1-(6-{[6,7-bis(methyloxy)quinolin-4-y1]oxy}pyridin-3-y1)-/12-	
46	N/6-(16.7-bis(methyloxy)quinolin-4-ylloxy)pyridin-3-yl)-3-phenylpropanamide	
47	N (6 (16 7 bis/methyloxy)quinolin-4-ylloxy)pyndin-3-yl)-4-pnenyloutanamide	
48	N1-(6-{[6,7-bis(methyloxy)quinolin-4-yl]oxy}pyridin-3-yl)-N2-methyl-N2-	
49	N-(4-{[6,7-bis(methyloxy)quinolin-4-yl]oxy}-3-fluorophenyl)-N-{2-{4-	
50	N1-(4-{[6,7-bis(methyloxy)quinolin-4-yl]oxy}-3-fluorophenyl)-N2-methyl-N2-	
51	4-[(2-amino-1,3-benzothiazol-6-yl)oxy]-6,7-bis(methyloxy)-1-(2-oxo-2-	
52	N-{[(4-{[6,7-bis(methyloxy)quinolin-4-yl]amino}phenyl)amino]carbonothioyl}-2-	
53	N-(6-{[6,7-bis(methyloxy)quinolin-4-y1]oxy}-5-fluoro-1,3-benzothiazol-2-y1)-3-	
54	N-{[(6-{[6,7-bis(methyloxy)quinolin-4-yl]oxy}-5-chloropyridin-3-yl)amino]carbonothioyl}-2-	
55	N-(4-{[6,7-bis(methyloxy)quinolin-4-yl]oxy}-3-fluorophenyl)-N-(2,3-dihydro-1H-inden-1-	
56	N-(4-{[6,7-bis(methyloxy)quinolin-4-yl]oxy}-3-fluorophenyl)-N-(2,3-dihydro-1H-inden-2-	
57	N-(4-{[6,7-bis(methyloxy)quinolin-4-yl]oxy}-3-fluorophenyl)-N-(1,2,3,4-	
58	terranyaronapnimateri-1-yipumancuannoc  N-(4-{[6,7-bis(methyloxy)quinolin-4-yi]oxy}-3-fluorophenyl)-N-(2-phenylethyl)-N- (phenylmethyl)sulfamide	
59	N1-(4-{[6,7-bis(methyloxy)quinolin-4-yl]oxy}-3-fluorophenyl)-N2-	
739	111-(1-1[o)) on/monthool/demons (1)-(1)	

Table 3b. Additional Representative c-MET Inhibitors	
Entry	Name
	(trifluoroacetyl)glycinamide
60	N-{[4-(6,7-dimethoxy-quinolin-4-yloxy)-3-fluoro-phenylcarbamoyl]-methyl}-benzamide
61	N-(6-{[6,7-bis(methyloxy)quinolin-4-yl]oxy}pyridin-3-yl)-N-(4-fluorophenyl)propanediamide
62	N-(4-{[6,7-bis(methyloxy)quinolin-4-yl]oxy}-3-fluorophenyl)-N-[(2S)-1,2,3,4-tetrahydronaohthalen-2-yl]ethanediamide
	N-(4-{[6,7-bis(methyloxy)quinolin-4-yl]oxy}-3-fluorophenyl)-N-[2-(4-
63	methylphenyl)ethyllethanediamide
	N-(4-{[6,7-bis(methyloxy)quinolin-4-yl]oxy}-3-fluorophenyl)-N-(2-
64	phenylpropyl)ethanediamide
65	N-(4-{[6,7-bis(methyloxy)quinolin-4-yl]oxy}-3-fluorophenyl)-N-{2-(4-
	chlorophenyl)ethyl]ethanediamide
66	N-(4-{[6,7-bis(methyloxy)quinolin-4-yl]oxy}-3-fluorophenyl)-N,N-bis(phenylmethyl)sulfamide
	N-(4-{[6,7-bis(methyloxy)quinolin-4-yl]oxy}-3-fluorophenyl)-N,N-bis(2-
67	phenylethyl)sulfamide
68	ethyl (6-16.7-his(methyloxy)quinolin-4-ylloxy)-5-chloropyridin-3-yl)amino](oxo)acetate
	N-(6-{[6,7-bis(methyloxy)quinolin-4-yl]oxy}-5-chloropyridin-3-yl)-N-(2-
69	phenylethyl)ethanediamide
	N-(6-{[6,7-bis(methyloxy)quinolin-4-yl]oxy}-5-chloropyridin-3-yl)-N-(4-
70	fluorophenyl)propanediamide
	N-(4-{[6,7-bis(methyloxy)quinolin-4-yl]oxy}-3-fluorophenyl)-N-(1,2,3,4-
71	tetrohydronanhtholen-2-vi)ethanediamide
	N-(4-{[6,7-bis(methyloxy)quinolin-4-yl]oxy}-3-fluorophenyl)-M-[2-(1-methylpyrrolidin-2-
72	vDethyllethanediamide
	N-(4-{[6,7-bis(methyloxy)quinolin-4-yl]oxy}-3-fluorophenyl)-N-[2-
73	(phenyloxy)ethyl]ethanediamide
74	N-(4-{[6,7-bis(methyloxy)quinolin-4-yl]oxy}-3-fluorophenyl)-N-[2-hydroxy-1-
/4	(phenylmethyl)ethyl]urea
75	1-(4-{[6,7-bis(methyloxy)quinolin-4-yl]oxy}-3-fluorophenyl)-3-[(4-methylphenyl)sulfonyl]-4-
13	(phenylmethyl)imidazolidin-2-one
76	N-(4-{[6,7-bis(methyloxy)quinolin-4-yl]oxy}-3-fluorophenyl)-N-methyl-N-(2-
	phenylethyl)ethanediamide
77	N-(4-{[6,7-bis(methyloxy)quinolin-4-yl]oxy}-3-fluorophenyl)-N-{[3-
"	(trifluoromethyl)phenyl]methyl}ethanediamide
78	N-(4-{[6,7-bis(methyloxy)quinolin-4-yl]oxy}-3-fluorophenyl)-N-{2-[3-
76	(trifluoromethyl)phenyl]ethyl}ethanediamide
79	N-(6-{[6,7-bis(methyloxy)quinolin-4-yl]oxy}-5-chloropyridin-3-yl)-3-oxo-4-
	phenylbutanamide
80	N-(6-{{6,7-bis(methyloxy)quinolin-4-yl]oxy}-5-chloropyridin-3-yl)-2-[3-
	(trifluoromethyl)phenyl]acetamide  6-{[6,7-bis(methyloxy)quinolin-4-yl]oxy}-5-fluoro-N-[2-(phenyloxy)ethyl]-1,3-benzothiazol-
81	
	2-amine 6-{[6,7-bis(methyloxy)quinolin-4-yl]oxy}-5-fluoro-N-(2-piperidin-1-ylethyl)-1,3-
82	benzothiazol-2-amine
	6-{[6,7-bis(methyloxy)quinolin-4-yl]oxy}-5-fluoro-N-methyl-N-(2-phenylethyl)-1,3-
83	benzothiazol-2-amine
	6-{[6,7-bis(methyloxy)quinolin-4-yl]oxy}-5-fluoro-N-(2-pyrrolidin-1-ylethyl)-1,3-
84	benzothiazol-2-amine
	6-{[6,7-bis(methyloxy)quinolin-4-yl]oxy}-5-fluoro-N-{[3-(trifluoromethyl)phenyl]methyl}-
85	1 3-benzothiazol-2-amine
	6-{[6,7-bis(methyloxy)quinolin-4-yl]oxy}-5-fluoro-N-{2-[3-(trifluoromethyl)phenyl]ethyl}-
86	1.3-benzothiazol-2-amine
	N-(6-{[6,7-bis(methyloxy)quinolin-4-yl]oxy}-5-chloropyridin-3-yl)-N-[3-

	Table 3b. Additional Representative c-MET Inhibitors	
Entry	Name	
	(trifluoromethyl)phenyl]propanediamide	
88	N-(6-{[6,7-bis(methyloxy)quinolin-4-yl]oxy}-5-fluoro-1,3-benzothiazol-2-yl)-2-[3-	
89	\(\lambda\) \(\lam	
90	N1-(4-{[6,7-bis(methyloxy)quinolin-4-yl]oxy}-3-fluorophenyl)-N2-(2-	
91	N1-(4-{[6,7-bis(methyloxy)quinolin-4-y1]oxy}-3-fluorophenyl)-N2-{2-[3-	
92	benzyl-{[5-chloro-6-(6,7-dimethoxy-quinolin-4-yloxy)-pyridin-3-ylcarbamoy1]-metnyl}-	
93	N1-(6-{[6,7-bis(methyloxy)quinolin-4-yl]oxy}-5-chloropyridin-3-yl)-N2-	
94	N-(6-{[6,7-bis(methyloxy)quinolin-4-yl]oxy}-5-fluoro-1,3-benzothiazol-2-yl)-2-[3,5-	
95	bis(trifluoromethyl)phenyl]acetamide  N-(6-[[6,7-bis(methyloxy)quinolin-4-yl]oxy}-5-fluoro-1,3-benzothiazol-2-yl)-2-[2-chloro-5-	
96	(trifluoromethyl)phenyl]acetamide  N-{3-fluoro-4-[(6-(methyloxy)-7-{[(1-methylpiperidin-4-yl)methyl]oxy}quinolin-4-	
97	y])oxy]phenyl]-M-(2-phenylethyl)ethanediamide N-(4-{[6,7-bis(methyloxy)quinolin-4-yl]oxy}-3-fluorophenyl)-M-(1,2,3,4-	
98	tetrahydroisoquinolin-1-ylmethylpothanediamide  N-(4-(16,7-bis(methyloxy)quinolin-4-yljoxy)-3-fluorophenyl)-N'-((2-methyl-1,2,3,4- tetrahydroisoquinolin-1-yl)methyl)ethanediamide	
99	N1-(4-{[6,7-bis(methyloxy)quinolin-4-yl]oxy}-3-fluorophenyl)-N2-methyl-N2-{[5-	
100	N1-(4-{[6,7-bis(methyloxy)quinolin-4-yl]oxy}-3-fluoropnenyl)-N2-methyl-N2-(2-[3-	
101	(trifluoromethyl)phenyl]ethyl}glycinamide N1-(4-{[6,7-bis(methyloxy)quinolin-4-yl]oxy}-3-fluorophenyl)-N2-methyl-N2-(2-	
102	$\frac{phenylethyl)glycinamide}{1-(4-\{[6,7-bis(methyloxy)quinolin-4-yl]oxy\}-3-fluorophenyl)-4-(phenylmethyl)imidazolidin-1-(4-\{[6,7-bis(methyloxy)quinolin-4-yl]oxy\}-3-fluorophenyl)-4-(phenylmethyl)imidazolidin-1-(phenylmet$	
103	2-one N-(6-{[6,7-bis(methyloxy)quinolin-4-yl]oxy}pyridazin-3-yl)-N-(4-	
104	fluorophenyl)propanediamide  N-(6-{[6,7-bis(methyloxy)quinolin-4-yl]oxy}-5-chloropyridin-3-yl)-N'-(2-	
105	chlorophenyl)propanediamide  N-(6-{[6,7-bis(methyloxy)quinolin-4-yl]oxy}-5-chloropyridin-3-yl)-N-(3-	
103	chlorophenyl)propanediamide  N1-(6-{[6,7-bis(methyloxy)quinolin-4-yl]oxy}-5-chloropyridin-3-yl)-N2-methyl-N2-	
107	(phenylmethyl)glycinamide  N-(6-{[6,7-bis(methyloxy)quinolin-4-yl]oxy}-5-chloropyridin-3-yl)-N-(4-	
	chlorophenyl)propanediamide	
108	(2E) N (4-116 7-bis(methyloxy)quinolin-4-yiloxy)phenyi)-2-[(culyloxy)iinthojpi-gammati	
	(2E)-N-(4-{[6.7-bis(methyloxy)quinolin-4-yl]oxy}pnenyl)-2-	
110	((/-tlm-thy))ovylimino)propagamide	
111	\(\(\(\(\(\(\(\(\)\)\)\)\)\)\(\(\)\)\(\(\)\)\(\(\)\)\(\(\)\)\(\)\(\)\(\)\(\(\)\)\(\(\)\)\(\)\(\)\\(\)\\(\)\\\\\\	
112		
113		
114	N-(4-{[6,7-bis(methyloxy)quinolin-4-yl]oxy}phenyl)-4-(phenylmetryl)-4,5-timydio	
115	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	
116	1-(4-[6,7-bis(methyloxy)quinolin-4-yl]oxy}phenyl)-4-(phenylmethyl)piperazin-2-one	

	Table 3b. Additional Representative c-MET Inhibitors	
Entry	Name	
117	N1-(4-{[6,7-bis(methyloxy)quinolin-4-yl]oxy}phenyl)-N2-(phenylmethyl)alaninamide	
118	//I-(4-{[6,7-bis(methyloxy)quinolin-4-yl]oxy}phenyl)-///2-methyl-//2- (phenylmethyl)alaninamide	
119	N1-(4-{[6,7-bis(methyloxy)quinolin-4-yl]oxy}phenyl)-N2-(phenylmethyl)leucinamide	
120	N1-(4-{16,7-bis(methyloxy)quinolin-4-yl]oxy}phenyl)-N2-methyl-N2- (phenylmethyl)leucinamide	
121	N1-(4-{[6,7-bis(methyloxy)quinolin-4-yl]oxy}phenyl)-N2-(phenylmethyl)valinamide	
122	4-(6,7-dimethoxy-quinolin-4-ylamino)-N-(3-phenyl-propyl)-benzamide	
123	4-benzyl-1-[4-(6,7-dimethoxy-quinolin-4-yloxy)-phenyl]-tetrahydro-pyrimidin-2-one	
124	N-{3-Fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)-quinolin-4-yloxy]-phenyl}-N-phenethyl-oxalamide	
125	2-(Benzyl-methyl-amino)-N-[4-(6,7-dimethoxy-quinolin-4-yloxy)-phenyl]-3-methyl-butyramide	
126	(note: Alphabetic order of prefixes ignored while selecting parent chain)  N-[4-(6,7-Dimethoxy-quinolin-4-yloxy)-phenyl]-2-phenoxyimino-propionamide	
127	2-Benzyloxyimino-N-[4-(6,7-dimethoxy-quinolin-4-yloxy)-phenyl]-2-phenyl-acetamide	
128	4-[4-(4-Benzyl-piperidin-1-yl)-phenoxy]-6,7-dimethoxy-quinoline	
129	N-[4-(6,7-Dimethoxy-quinolin-4-yloxy)-3-fluoro-phenyl]-N-(2-isopropyl-1,2,3,4-tetrahydro-isoguinolin-1-ylmethyl)-oxalamide	
130	N-[4-(6,7-Dimethoxy-quinolin-4-yloxy)-3-fluoro-phenyl]-N-(2-ethyl-1,2,3,4-tetrahydro-isoquinolin-1-ylmethyl)-oxalamide	
131	4-(4-(3-Chloro-5-[2-(4-fluoro-phenylcarbamoyl)-acetylamino]-pyridin-2-yloxy}-6-methoxy- guinolin-7-yloxymethyl)-piperidine-1-carboxylic acid tert-butyl ester	
132	N-{5-Chloro-6-(6-methoxy-7-(piperidin-4-ylmethoxy)-quinolin-4-yloxy}-pyridin-3-yl}-N^-(4-fluoro-phenyl)-malonamide	
133	N-{5-Chloro-6-[6-methoxy-7-(1-methyl-piperidin-4-ylmethoxy)-quinolin-4-yloxy]-pyridin-3-yl}-W-(4-fluoro-phenyl)-malonamide	
134	N-{4-[7-(3-Diethylamino-propoxy)-6-methoxy-quinolin-4-yloxy]-3-fluoro-phenyl}-N-	
135	N-{3-Fluoro-4-{6-methoxy-7-(3-morpholin-4-yl-propoxy)-quinolin-4-yloxy]-phenyl}-N-phenethyl-oxalamide	
136	N-{3-Fluoro-4-[6-methoxy-7-(3-piperidin-1-yl-propoxy)-quinolin-4-yloxy]-phenyl}-N-phenethyl-oxalamide	
137	N-{4-[7-(2-Diethylamino-ethoxy)-6-methoxy-quinolin-4-yloxy]-3-fluoro-phenyl}-N-phenethyl-oxalamide	
138	N-{3-Fluoro-4-[6-methoxy-7-(1-methyl-piperidin-4-ylmethoxy)-quinolin-4-yloxy]-phenyl}- N-methyl-N-phenethyl-oxalamide	
139	N-{3-Fluoro-4-[6-methoxy-7-(2-methyl-octahydro-cyclopenta[c]pyrrol-5-ylmethoxy)- quinolin-4-yloxy]-phenyl}-N-phenethyl-oxalamide	
140	N-{3-Fluoro-4-[6-methoxy-7-(2-methyl-octahydro-cyclopenta[c]pyrrol-5-ylmethoxy)- quinazolin-4-yloxy]-phenyl}-N-phenethyl-oxalamide	
141	2-(3,4-Dihydro-1 <i>H</i> -isoquinolin-2-yl)- <i>N</i> -(3-fluoro-4-[6-methoxy-7-(1-methyl-piperidin-4-ylmethoxy)-quinolin-4-yloxy]-phenyl]-2-oxo-acetamide	
142	N-{3-Fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)-quinolin-4-yloxy]-phenyl}-2-oxo-2-(3-phenyl-pytrolidin-1-yl)-acetamide	
143	N-{3-Fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)-quinolin-4-yloxy]-phenyl}-2-oxo-2-(2-phenyl-morpholin-4-yl)-acetamide	
144	N-(2-Dimethylamino-2-phenyl-ethyl)-N-{3-fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)-quinolin-4-yloxyl-phenyl}-oxalamide	
145	N-{3-Fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)-quinolin-4-yloxy]-phenyl}-N-(2-oxo-2-phenyl-ethyl)-oxalamide	

	Table 3b. Additional Representative c-MET Inhibitors	
Entry	Name	
146	N-[5-Chloro-6-(6,7-dimethoxy-quinolin-4-yloxy)-pyridin-3-yl]-2,2-difluoro-N-(4-fluoro-phenyl)-malonamide	
147	M-Benzyl-N-{3-fluoro-4-[6-methoxy-7-(1-methyl-piperidin-4-ylmethoxy)-quinolin-4-yloxyl-phenyl}-oxalamide	
148	N-{3-Fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)-quinolin-4-yloxy]-phenyl}-N-[2-(2-fluoro-phenyl)-ethyl]-oxalamide	
149	N-[2-(3-Chloro-phenyl)-ethyl]-N- [3-fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)-quinolin-4-yloxy]-phenyl}-oxalamide	
150	N-{3-Fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)-quinolin-4-yloxy]-phenyl}-N-[2-(2-methoxy-phenyl)-ethyl]-oxalamide	
151	N-{3-Fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)-quinolin-4-yloxy]-phenyl}-N-(2- pyridin-3-yl-ethyl)-oxalamide	
152	N-Benzyl-N-{3-fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)-quinolin-4-yloxy]-phenyl}- oxalamide	
153	N-[2-(2,5-Dimethoxy-phenyl)-ethyl]-N-{3-fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)- quinglin-4-yloxyl-phenyl}-oxalamide	
154	N-{3-Fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)-quinolin-4-yloxy]-phenyl}-N-[2-(2-trifluoromethyl-phenyl)-ethyl]-oxalamide	
155	N-[2-(2-Ethoxy-phenyl)-ethyl]-N-{3-fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)-quinolin-4-yloxy]-phenyl}-oxalamide	
156	N-[2-(2,4-Dimethyl-phenyl)-ethyl]-N-{3-fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)-	
157	N-{3-Fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)-quinolin-4-yloxy]-phenyl}-N-(1S-phenyl-2-p-tolyl-ethyl)-oxalamide	
158	N-[2-(4-Chloro-phenyl)-ethyl]-N-{3-fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)-	
159	N-{3-Fluoro-4-[6-methoxy-7-(1-methyl-piperidin-4-ylmethoxy)-quinolin-4-yloxy]-phenyl}-	
160	N-{3-Fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)-quinolin-4-yloxy]-phenyl}-N-[2-(3-fluoro-phenyl)-phenyl]-nxalamide	
161	N-[2-(2-Chloro-phenyl)-ethyl]-N-(3-fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)-	
162	N-{3-Fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)-quinolin-4-yloxy]-phenyl}-N-[2-(3-methoxy-phenyl)-ethyl]-oxalamide	
163	N-(1,2-Diphenyl-ethyl)-N-(3-fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)-quinolin-4-yloxyl-phenyl-oxalamide	
164	N-[2-(2,4-Dichloro-phenyl)-ethyl]-N-{3-fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)-	
165	N-[2-(3,4-Dimethoxy-phenyl)-cthyl]-N-[3-fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)-	
166	N-[2-(4-Ethyl-phenyl)-ethyl]-N-{3-fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)-quinolin-	
167	N-[2-(4-Ethoxy-phenyl)-ethyl]-N-{3-fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)-	
168	N-[2-(4-Ethoxy-3-methoxy-phenyl)-ethyl]-N-[3-fluoro-4-[6-methoxy-7-(piperidin-4- ylmethoxyl-quinolin-4-yloxyl-phenyl}-oxalamide	
169	N-{3-Fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)-quinolin-4-yloxy]-phenyl}-N-[2-(4-nhenoxy-phenyl)-ethyl]-oxalamide	
170	N-[2-(3-Ethoxy-4-methoxy-phenyl)-ethyl]-N-{3-fluoro-4-[6-methoxy-7-(piperidin-4-ylmythoxy)-quinolin-4-yloxyl-phenyl}-oxalamide	
171	N-{3-Fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)-quinolin-4-yloxy]-phenyl}-N'-(2- nyridin-2-yl-ethyl)-oxalamide	
172	N-{3-Fluoro-4-{6-methoxy-7-(piperidin-4-ylmethoxy)-quinolin-4-yloxy]-phenyl}-N-{2-	

## Table 3b. Additional Representative c-MET Inhibitors Name Entry pyridin-4-yl-ethyl)-oxalamide N-{3-Fluoro-4-[6-methoxy-7-(piperidin-4-ylmothoxy)-quinolin-4-yloxy]-phenyl}-N-[2-(4-173 fluoro-phenyl)-ethyl]-oxalamide N-[2-(2-Bromo-phenyl)-ethyl]-N-{3-fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)-174 quinolin-4-yloxy]-phenyl}-oxalamide N-[2-(2-Chloro-6-fluoro-phenyl)-ethyl]-N-{3-fluoro-4-[6-methoxy-7-(piperidin-4-175 ylmethoxy)-quinolin-4-yloxy]-phenyl}-oxalamide N-{3-Fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)-quinolin-4-yloxy]-phenyl}-N-(2R-176 phenyl-propyl)-oxalamide N-{3-Fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)-quinolin-4-yloxy]-phenyl}-N-indan-1-177 vI-oxalamide N-{3-Fluoro-4-[6-methoxy-7-(1-methyl-piperidin-4-ylmethoxy)-quinolin-4-yloxy]-phenyl}-178 N'-isobutyl-oxalamide N-{3-Fluoro-4-[6-methoxy-7-(1-methyl-piperidin-4-ylmethoxy)-quinolin-4-yloxy]-phenyl}-179 N-(3-methyl-butyl)-oxalamide N-{3-Fluoro-4-[6-methoxy-7-(1-methyl-piperidin-4-ylmethoxy)-quinolin-4-yloxy]-phenyl}-180 N-(2R-phenyl-propyl)-oxalamide N-{3-Fluoro-4-[6-methoxy-7-(1-methyl-piperidin-4-ylmethoxy)-quinolin-4-yloxy]-phenyl}-181 N-(2-phenyl-propyl)-oxalamide N-{3-Fluoro-4-[6-methoxy-7-(1-methyl-piperidin-4-ylmethoxy)-quinolin-4-yloxy]-phenyl}-182 N'-indan-2-yl-oxalamide N-{3-Fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)-quinolin-4-yloxy]-phenyl}-N-(1R-183 phenyl-ethyl)-oxalamide N-{3-Fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)-quinolin-4-yloxy]-phenyl}-N-(1S-184 phenyl-ethyl)-oxalamide N-[2-(3-Bromo-phenyl)-ethyl]-N-(3-fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)-185 quinolin-4-yloxy]-phenyl}-oxalamide N-[2-(2,6-Dichloro-phenyl)-ethyl]-N-(3-fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)-186 quinolin-4-yloxy]-phenyl}-oxalamide N-[2-(2,4-Dichloro-phenyl)-ethyl]-N-{3-fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)-187 quinolin-4-yloxy]-phenyl}-oxalamide N-(2-Benzo[1,3]dioxol-5-yl-ethyl)-N-{3-fluoro-4-[6-methoxy-7-(piperidin-4-vlmethoxyl-188 quinolin-4-yloxy]-phenyl}-oxalamide N-[2-(3-Bromo-4-methoxy-phenyl)-ethyl]-N-{3-fluoro-4-[6-methoxy-7-(piperidin-4-189 ylmethoxy)-quinolin-4-yloxy]-phenyl}-oxalamide N-[2-(3,5-Dimethoxy-phenyl)-ethyl]-N-[3-fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)-190 quinolin-4-yloxy]-phenyl}-oxalamide N-{3-Fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)-quinolin-4-yloxy]-phenyl}-N-(2-o-191 tolyl-ethyl)-oxalamide N-{3-Fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)-quinolin-4-yloxy]-phenyl}-N-{2-m-192 tolyl-ethyl)-oxalamide N-[2-(3-Ethoxy-phenyl)-ethyl]-N-{3-fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)-193 quinolin-4-yloxy]-phenyl}-oxalamide N-[2-(3,4-Dimethyl-phenyl)-ethyl]-N-{3-fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)-194 quinolin-4-yloxy]-phenyl}-oxalamide N-[2-(2,5-Dimethyl-phenyl)-ethyl]-N-{3-fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)-195 quinolin-4-yloxy]-phenyl}-oxalamide N-[2-(3-Chloro-4-propoxy-phenyl)-ethyl]-N-{3-fluoro-4-[6-methoxy-7-(piperidin-4-196 ylmethoxy)-quinolin-4-yloxy]-phenyl}-oxalamide N-[2-(4-Butoxy-3-chloro-phenyl)-ethyl]-N-{3-fluoro-4-[6-methoxy-7-(piperidin-4-197 ylmethoxy)-quinolin-4-yloxy]-phenyl}-oxalamide N-[2-(4-tert-Butyl-phenyl)-ethyl]-N-{3-fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)-

quinolin-4-yloxy]-phenyl}-oxalamide

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	Table 3b. Additional Representative c-MET Inhibitors
Entry	Name
199	N-{3-Fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)-quinolin-4-yloxy]-phenyl}-N-{2-(4-sulfamoyl-phenyl)-ethyl]-oxalamide
200	N-{3-Fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)-quinolin-4-yloxy]-pnenyi}-1/-[2-(4-
201	N-{3-Fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)-quinolin-4-yloxy]-pnenyl}-N-[2-(3-
202	N-(2,4-Dichloro-benzyl)-N-(3-fluoro-4-[6-methoxy-7-(piperidin-4-yimethoxy)-quinom-4-
203	yloxy]-phenyl]-oxalamide  N-(3-Fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)-quinolin-4-yloxy]-phenyl]-N-(4- fluoro-2-trifluoromethyl-benzyl)-oxalamide
204	fluoro-2-trittuorometityi-benzyj-oxalamie //(3-Fluoro-4-(6-methoxy-7-(piperidin-4-ylmethoxy)-quinolin-4-yloxy]-phenyl)-//(1-p-toly)-ethyl)-oxalamide //(3-Fluoro-4-(6-methoxy-7-(piperidin-4-ylmethoxy)-quinolin-4-yloxy]-phenyl)-//(3-
205	M-(3-Fluoro-4-(6-methoxy)-7-(piperdin-4-yimetnoxy)-quinoin
206	/M-(3-Chloro-4-fluoro-benzy)-/M-(3-fluoro-4-[o-metioxy/-/u-p-stoin-y)-mailinde 
207	/M-(3-Fluoro-4-[6-methoxy(-piperialn-4-ylmethoxy)-quinolin-4-yloxy]-phenyl}-/M-(1- /M-(3-Fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)-quinolin-4-yloxy]-phenyl}-/M-(1-
208	N-{3-Fluoro-4-lo-metnoxy-7-(piperluin-7-metnoxy) 4-metnoxy)- naphthalen-2-yl-ethyl)-oxalamide N-(4-Chloro-3-trifluoromethyl-benzyl)-N-{3-fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)- N-(4-Chloro-3-trifluoromethyl-benzyl)-N-{3-fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)-
209	N-(4-Chioro-3-rindomicary)-oxalamide  N-(3-Fluoro-4-(6-methoxy-7-(piperidin-4-ylmethoxy)-quinolin-4-yloxy]-phenyl}-N-(1-p-
210	N-{3-Fluoro-4-[6-methoxy-7-(piperdin-4-ylmethoxy)-quinolin-4-yloxy]-phenyl}-N-{6- N-{3-Fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)-quinolin-4-yloxy]-phenyl}-N-{6-
211	h-{3-Fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)-quinolin-4-yloxy]-phenyl}-N-{2-N-{3-Fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)-quinolin-4-yloxy]-phenyl}-N-{2-N-{3-Fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)-quinolin-4-yloxy]-phenyl}-N-{2-N-{3-Fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)-quinolin-4-yloxy]-phenyl}-N-{2-N-{3-Fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)-quinolin-4-yloxy]-phenyl}-N-{3-Fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)-quinolin-4-yloxy]-phenyl}-N-{3-Fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)-quinolin-4-yloxy]-phenyl}-N-{3-Fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)-quinolin-4-yloxy]-phenyl}-N-{3-Fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)-quinolin-4-yloxy]-phenyl}-N-{3-Fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy]-phenyl}-N-{3-Fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy]-phenyl}-N-{3-Fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy]-phenyl}-N-{3-Fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy]-phenyl}-N-{3-Fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy]-phenyl}-N-{3-Fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy]-phenyl}-N-{3-Fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy]-phenyl}-N-{3-Fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy]-phenyl}-N-{3-Fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy]-phenyl}-N-{3-Fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy]-phenyl}-N-{3-Fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy]-phenyl}-N-{3-Fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy]-phenyl}-N-{3-Fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy]-phenyl}-N-{3-Fluoro-4-[6-methoxy-7-(piperidin-4-ylmethox]-phenyl}-N-{3-Fluoro-4-[6-methoxy-7-(piperidin-4-ylmethox]-phenyl-phe
212	methyl-benzyl)-oxalamide  N-{3-Fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)-quinolin-4-yloxy]-phenyl}-N-{3-
213	methyl-benzyl)-oxalamide  N-(3-Fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)-quinolin-4-yloxy]-phenyl}-N-(4-
214	fluoro-3-trifluoromethyl-benzyl)-oxalamide  N-(3,5-Dichloro-benzyl)-N-(3-fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)-quinolin-4-
215	yloxy]-phenyl}-oxalamide  N. (3.Flyoro-d-16-methoxy-7-(piperidin-4-ylmethoxy)-quinolin-4-yloxy]-phenyl}-N-
216	(1R,2,3,4-tetrahydro-naphthalen-1-yl)-oxaiamide  N. (3.Fluoro-4-16-methoxy-7-(piperidin-4-ylmethoxy)-quinolin-4-yloxy]-phenyl}-N-
217	(1S,2,3,4-tetrahydro-naphthalen-1-yl)-oxalamide N-Cyclopentyl-N-{3-fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)-quinolin-4-yloxy]-
218	phenyl}-oxalamide N-[1-(4-Bromo-phenyl)-ethyl]-N-{3-fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)-
219	quinolin-4-yloxy]-phenyl}-oxalamide  N-(2-Fluoro-benzyl)-N'-{3-fluoro-4-{6-methoxy-7-(piperidin-4-ylmethoxy)-quinolin-4-yloxy}-
220	phenyl}-oxalamide  N-[2-(3,4-Dichloro-phenyl)-ethyl]-M-[3-fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)-
222	quinolin-4-yloxy]-phenyl]-oxalamide N-(4-Fluoro-benzyl)-N-{3-fluoro-4-{6-methoxy-7-(piperidin-4-ylmethoxy)-quinolin-4-yloxy}-
223	phenyl}-oxalamide  N-{2,3-Difluoro-benzyl}-N-{3-fluoro-4-{6-methoxy-7-(piperidin-4-ylmethoxy)-quinolin-4-
224	yloxy]-phenyl}-oxalamide  N-(3-Fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)-quinolin-4-yloxy]-phenyl}-N-(2-phenoxy-ethyl)-oxalamide
225	phenoxy-ethyl)-oxalamide N-(2,2-Diphenyl-ethyl)-N-{3-fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)-quinolin-4-

	Table 3b. Additional Representative c-MET Inhibitors
Table 50. Additional representation	
Entry	Name
	yloxy]-phenyl}-oxalamide N-{3-Fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)-quinolin-4-yloxy]-phenyl}-N-[2-(4-
226	methovy nhenyl) ethyl lovalamide
227	//-(3-Fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)-quinolin-4-yloxy]-phenyl}-N-(2- phenyl-propyl)-oxalamide
228	N-[2-(4-Bromo-phenyl)-ethyl]-N-{3-fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)-
229	quinolin-4-yloxy[-pineny]-oxalainus  N-{4-[7-(1-Ethyl-piperidin-4-ylmethoxy)-6-methoxy-quinolin-4-yloxy]-3-fluoro-phenyl}-2- oxo-2-(2-phenyl-morpholin-4-yl)-acetamide
230	N-{3-Fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)-quinolin-4-yloxy]-phenyl}-N-(3-
231	fluoro-5-trifluoromethyl-benzyl)-oxalamide N-(3,5-Difluoro-benzyl)-N-{3-fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)-quinolin-4-
232	yloxy]-phenyl}-oxalamide N-(2-Chloro-5-trifluoromethyl-benzyl)-N-{3-fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)
	quinolin-4-yloxy]-phenyl}-oxalamide  N-[4-(6,7-Dimethoxy-quinolin-4-yloxy)-3-fluoro-phenyl]-N-(2-dimethylamino-2-phenyl-
233	ethyl)-oxalamide  N-{3-Fluoro-4-[6-methoxy-7-{piperidin-4-ylmethoxy}-quinolin-4-yloxy]-phenyl}-N-(4-
234	methoxy-benzyl)-oxalamide  N-{3-Fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)-quinolin-4-yloxy]-phenyl}-N-{4-
235	N-{3-Fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)-quinolin-4-yloxy]-phenyl}-N'-(3-
236	
237	methoxy-benzyl-oxalamide  N-{3-Fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)-quinolin-4-yloxy]-phenyl}-N-(3-trifluoromethyl-benzyl)-oxalamide
238	N-{3-Fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)-quinolin-4-yloxy}-pnenyi}-iv-(3-
239	N-{3-Fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)-quinolin-4-yloxy]-pnenyi}-/-(2-
240	N-{3-Fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)-quinolin-4-yloxy)-pilenyi)-1-42
241	N-(3-Chloro-benzyl)-N-{3-fluoro-4-[6-methoxy-7-(piperidin-4-yimethoxy)-quinoiiii-4-yiox
	phenyl}-oxalamide  N-{3-Fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)-quinolin-4-yloxy]-phenyl}-N'-(2-
242	trifluoromethoxy-benzyl)-oxalamide  N-(2-Chloro-benzyl)-N-{3-fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)-quinolin-4-ylox
243	phenyl]-oxalamide  N-{3-Fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)-quinolin-4-yloxy]-phenyl}-N-(4-
244	N-(3-Fluoro-4-(6-methoxy-7-(1-methyl-piperidin-4-ylmethoxy)-quinolin-4-yloxy]-phenyl}- N-(3-Fluoro-4-(6-methoxy-7-(1-methyl-piperidin-4-ylmethoxy)-quinolin-4-yloxy]-phenyl}-
245	
246	N-(4-methoxy-benzyl)-oxalamide N-(3-Fluoro-4-[6-methoxy-7-(1-methyl-piperidin-4-ylmethoxy)-quinollin-4-yloxy]-phenyl}- N-(4-trifluoromethyl-benzyl)-oxalamide
247	N-{4-[7-(Azetidin-3-ylmethoxy)-6-methoxy-quinolin-4-yloxy]-3-11uoro-pnenyi}-17-
248	N-{3-Fluoro-4-[6-methoxy-7-(1-methyl-azetidin-3-ylmethoxy)-quinoiin-4-yloxyj-pileilyi)-
249	N-{3-Fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)-quinolin-4-yloxy]-phenyl}-/v-(2-
250	N-[5-Chloro-6-(6,7-dimethoxy-quinolin-4-yloxy)-pyridin-3-yl]-N-(2,4-difluoro-phenyl)-
	malonamide  N-[5-Chloro-6-(6,7-dimethoxy-quinolin-4-yloxy)-pyridin-3-yl]-N-(4-fluoro-phenyl)-N-
251	methyl-malonamide

	Table 3b. Additional Representative c-MET Inhibitors		
Entry	Name		
252	N-{3-Fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)-quinolin-4-yloxy]-phenyl}-N-(1R-		
253	phenyl-propyl)-oxalamide N-(3-Fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)-quinolin-4-yloxy]-phenyl]-N-(1R-		
254	phenyl-propyl)-oxalamide N-(3,4-Difluoro-benzyl)-N-(3-fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)-quinolin-4-		
255	yloxy]-phenyl}-oxalamide N-(2,6-Difluoro-benzyl)-M-{3-fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)-quinolin-4-		
256	yloxy]-phenyl}-oxalamide  N-{3-Fluoro-4-[6-methoxy-7-(1-methyl-piperidin-4-ylmethoxy)-quinolin-4-yloxy]-phenyl}-		
257	N-[2-(4-fluoro-phenyl)-ethyl]-oxalamide N-[3-Fluoro-4-[6-methoxy-7-(1-methyl-piperidin-4-ylmethoxy)-quinolin-4-yloxy]-phenyl}-		
258	M-phenyl-oxalamide  M-{3-Fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)-quinolin-4-yloxy]-phenyl}-N-(3-		
259	fluoro-phenyl)-oxalamide //		
260	N-(3,4-Dimethoxy-phenyl)-N-{3-fluoro-4-[6-methoxy-7-(piperidin-4-yimethoxy)-quinomin-		
261	N-{3-Fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)-quinoiin-4-yloxy]-pirelyly-y-		
262	N-(3,3-Dimethyl-butyl)-N-{3-fluoro-4-[6-methoxy-7-(piperidin-4-yimethoxy)-quinorial-		
263	N-{5-Chloro-6-{6-methoxy-7-(3-piperidin-1-y1-propoxy)-quinolin-4-y10xy}-pyridin-3 y y		
264	N-{5-Chloro-6-[6-methoxy-7-(3-morpholin-4-yl-propoxy)-quinoini-4-yloxy]-pyricin 5 yi		
265	N-{5-Chloro-6-[7-(3-diethylamino-propoxy)-6-methoxy-quinoini-4-yioxy]-pyridin 3 yiy		
266	N-(4-Chloro-benzyl)-N-{3-fluoro-4-[6-methoxy-7-(piperion-4-yillieuloxy)-quilloni		
267	N-(3,5-Dimethoxy-benzyl)-N-{3-fluoro-4-[6-methoxy-/-(piperidin-4-yilletinoxy)-quality		
268	N-(4-Butyl-benzyl)-N-{3-fluoro-4-[6-methoxy-7-(piperium-4-yimethoxy)-4-methoxy		
269	N-{3-Fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)-quinoiin-4-yloxy]-piteriyi7-1-(2-p		
270	N-(3,5-Bis-trifluoromethyl-benzyl)-N-{3-fluoro-4-[6-methoxy-7-(piperiom + ) mississipple		
271	N-{3-Fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)-quinoiiii-4-yloxy)-pitety); 17 Pytasiii		
272	N-{3-Fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)-quinolin-4-yloxy]-piletiyi, -17-pyridin		
273	N-{3-Fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)-quinazolin-4-yloxy)-pichy-y-		
274	phenethyl-oxalamide  N-{3-Fluoro-4-[6-methoxy-7-(1-methyl-piperidin-4-ylmethoxy)-quinazolin-4-yloxyl-phenyl}- N-phenethyl-oxalamide		
275	N-{3-Fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)-quinoim-4-yloxy]-pierly-7-1-42		
276	N-[2-(2-Bromo-6-methoxy-phenyl)-ethyl]-N-[3-muoro-4-[0-methoxy-7-phenom		
277	N-[2-(3,4-Dimethoxy-phenyl)-ethyl]-N-{3-fluoro-4-[6-methoxy-7-(piperion-4-yanton-4-7-		
278	quinolin-4-yloxy]-phenyl]-N-metnyt-oxatamine N-[2-(5-Bromo-2-methoxy-phenyl)-ethyl]-N-[3-fluoro-4-[6-methoxy-7-(piperidin-4-		

	Table 3b. Additional Representative c-MET Inhibitors	
Entry	Name	
	ylmethoxy)-quinolin-4-yloxy]-phenyl}-oxalamide	
279	/// // N-{3-Fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)-quinolin-4-yloxy]-phenyl}-N-(2-fluoro-5-trifluoromethyl-benzyl)-oxalamide	
280	N-{3-Fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)-quinolin-4-yloxy]-phenyl}-N-[1-{4-fluoro-phenyl}-oxalamide	
281	N-(1S-Benzyl-2-oxo-2-pyrrolidin-1-yl-ethyl)-N'-{3-fluoro-4-[6-methoxy-7-(piperidin-4-yl-yl-phenyl)-oxalamide	
282	N-{3-Fluoro-4-[6-methoxy-7-(octahydro-cyclopenta[c]pyrrol-5-ylmethoxy)-quinazolin-4-	
283	N-[2-(4-Amino-phenyl)-ethyl]-N-(3-fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)-	
284	2-(4-Benzyl-piperidin-1-yl)-N-(3-fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)-quinolin-4-yloxyl-phenyl)-2-oxo-acetamide	
285	N-IA-(6.7-Dimethoxy-quinolin-4-yloxy)-phenyll-M-(4-fluoro-phenyl)-malonamide	
286	N-[5-Chloro-6-(6,7-dimethoxy-quinolin-4-yloxy)-pyridin-3-yl]-N-(3-fluoro-phenyl)-	
287	N-IS-Chloro-6-(6.7-dimethoxy-quinolin-4-yloxy)-pyridin-3-yl]-N'-phenyl-malonamide	
288	N-[5-Chloro-6-(6,7-dimethoxy-quinolin-4-yloxy)-pyridin-3-yl]-N-(4-fluoro-phenyl)-2,2-	
289	N-Ethyl-N-{3-fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)-quinolin-4-yloxy]-phenyl}-	
290	oxaiamue  N-{3-Fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)-quinolin-4-yloxy]-phenyl}-N- isopropyl-oxalamide	
291	N-Butyl-N-{3-fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)-quinolin-4-yloxy]-phenyl}-	
292	N-{3-Fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)-quinolin-4-yloxy]-phenyl}-N-{2-	
293	N-Cyclopropylmethyl-N-{3-fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)-quinolin-4-	
294	N-{3-Fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)-quinolin-4-yloxy]-pnenyi}-/v-{2-	
295	N-{3-Fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)-quinolin-4-yloxy]-phenyl}-2-oxo-2-	
296	N-Ethyl-N-{3-fluoro-4-[6-methoxy-7-(piperidin-4-ylmethoxy)-quinolin-4-yloxy]-phenyl}-N-	
	methyl-oxalamide and a single geometric isomer, stereoisomer, racemate, enantiomer, or diastereomer, thereof and optionally as a pharmaceutically acceptable salt, solvate, or hydrate thereof.	

	Table 3c. Additional Representative c-MET Inhibitors	
Entry	Name	
1	N-(6-{[6,7-bis(methyloxy)quinolin-4-y]]oxy}-5-chloropyridin-3-yl)-N-(4- fluorophenyl)cyclopropane-1,1-dicarboxamide	
2	N-(6-{[6,7-bis(methyloxy)quinolin-4-yl]oxy}-5-chloropyridin-3-yl}-N-(4-	
3	N-(6-{[6,7-bis(methyloxy)quinolin-4-yl]oxy}-5-chloropyridin-3-yl)-N-	
4	N-(6-{[6,7-bis(methyloxy)quinolin-4-yl]oxy}-5-chloropyridin-3-yl)-N-phenylcyclopropane-	
5	., runauoxamice M-[3-fluoro-4-(6-(methyloxy)-7-[(3-morpholin-4-ylpropyl)oxy]quinolin-4-yl}oxy)phenyl]-M- [(4-fluorophenyl)cyclopropane-1, 1-dicarboxamide	

	Table 3c. Additional Representative c-MET Inhibitors
Entry	Name
6	N-[3-fluoro-4-({6-(methyloxy)-7-[(3-piperidin-1-ylpropyl)oxy]quinolin-4-yl}oxy)phenyl]-N-(4-fluorophenyl)cyclopropane-1,1-dicarboxamide
7	N-[3-fluoro-4-({6-(methyloxy)-7-[(3-piperidin-1-ylpropyl)oxy]quinolin-4-yl}oxy)phenyl]-N- (4-fluoronhenyl)cyclobutane-1,1-dicarboxamide
8	N-(6-{[6,7-bis(methyloxy)quinolin-4-yl]oxy}-5-chloropyridin-3-yl)-N-(2- phenylethyl)cyclopropane-1,1-dicarboxamide
9	N-(6-[[6,7-bis(methyloxy)quinolin-4-yl]oxy)-2-methylpyridin-3-yl)-N-(4-fluorophenyl)cyclopropane-1,1-dicarboxamide
10	N-{4-[(7-chloroquinolin-4-yl)oxy]-3-fluorophenyl}-N-(4-fluorophenyl)cyclopropane-1,1-dicarboxamide
11	N-{4-[(7-chloroquinolin-4-yl)oxy]phenyl}-N-(4-fluorophenyl)cyclopropane-1,1-dicarboxamid
12	N-(4-{[6,7-bis(methyloxy)quinolin-4-yl]oxy}phenyl)-N-(4-fluorophenyl)cyclopropane-1,1-dicarboxamide
13	N-(4-{[6,7-bis(methyloxy)quinazolin-4-yl]oxy}phenyl)-N-(4-fluorophenyl)cyclopropane-1,1-dicarboxamide
14	N-(4-{[6,7-bis(methyloxy)quinazolin-4-yl]oxy}-3-fluorophenyl)-N-(4-fluorophenyl)cyclopropane-1,1-dicarboxamide
15	N-[3-fluoro-4-({6-(methyloxy)-7-[(3-morpholin-4-ylpropyl)oxy]quinazolin-4-yl}oxy)phenyl]
16	N-{3-chloro-6-[(6-(methyloxy)-7-{[(1-methylpiperidin-4-yl)methyl]oxy}quinolin-4-yl)oxy]pyridin-3-yl}-N-(4-fluorophenyl)cyclopropane-1,1-dicarboxamide
17	N-[5-chloro-6-({6-(methyloxy)-7-[(piperidin-4-ylmethyl)oxy]quinolin-4-yl}oxy)pyridin-3-yl]-
18	N-[5-chloro-6-({6-(methyloxy)-7-[(phenylmethyl)oxy]quinolin-4-yl}oxy)pyridin-3-yl]-N'-(4-
19	N-(4-{[7-{[2-(diethylamino)ethyl]oxy}-6-(methyloxy)quinolin-4-yl]oxy}-3-fluorophenyl)-N-
20	N-(4-{[7-{[2-(diethylamino)ethyl]oxy}-6-(methyloxy)quinolin-4-yl]oxy}-3-fluorophenyl)-N-
21	N-{3-fluoro-4-[(6-(methyloxy)-7-{[(1-methylpiperidin-4-yl)methyl]oxy}quinazolin-4- yl)oxylphenyl}-M-(4-fluorophenyl)cyclopropane-1,1-dicarboxamide
22	N-(4-{[6,7-bis(methyloxy)quinolin-4-yl]oxy}-2-methylpnenyi)-/-(4-
23	N-(4-fluorophenyl)-N-[2-methyl-6-({6-(methyloxy)-7-[(3-morpholin-4-yipropyi)oxyjquinolin- 4-yiloxyloxyidin-3-yiloyclonropane-1,1-dicarboxamide
24	N-(4-{[6,7-bis(methyloxy)quinolin-4-yl]oxy}-3-fluorophenyl)-N-(4-
25	N-(6-{[6,7-bis(methyloxy)quinolin-4-yl]oxy}-5-chloro-2-methylpyridin-3-yl)-N-(4-
26	N-[3-fluoro-4-({7-(methyloxy)-6-[(3-morpholin-4-ylpropyl)oxy]quinazolin-4-yl}oxy)phenyl
27	N-(4-{[6,7-bis(methyloxy)quinolin-4-yl]oxy}-3,5-difluorophenyl)-N-(4- fluorophenyl)cyclogropane-1,1-dicarboxamide
28	N-(4-{[6,7-bis(methyloxy)quinolin-4-yl]oxy}-2,5-difluorophenyl)-N-(4-
29	N-[3-fluoro-4-({7-(methyloxy)-6-[(3-morpholin-4-ylpropyl)oxy]quinolin-4-yl}oxy)phonyl]-N
30	N-{3-fluoro-4-[(6-(methyloxy)-7-(2-methyl octahydrocyclo-penta[c]pyrrol-5-
31	N-{3-fluoro-4-[(7-(methyloxy)-6-{[(1-methylpiperidin-4-yl)methyljoxy}quinazolin-4-
32	N-[5-fluoro-2-methyl-4-({6-(methyloxy)-7-[(3-morpholin-4-ylpropyl)oxy]quinolin-4- ylloxy)phenyll-N-(4-fluorophenyl)cyclopropane-1,1-dicarboxamide
33	N-(4-{[6,7-bis(methyloxy)quinolin-4-yl]oxy}-2,3,5-trifluorophenyl)-N-(4-

	Table 3c. Additional Representative c-MET Inhibitors	
Entry	Name	
	fluorophenyl)cyclopropane-1,1-dicarboxamide	
34	N-(4-{[6,7-bis(methyloxy)quinolin-4-yl]oxy}-5-fluoro-2-methylphenyl)-N-(4-fluorophenyl)cyclopropane-1,1-dicarboxamide	
35	N-(4-{[6,7-bis(methyloxy)quinolin-4-y1]oxy}-2-chloro-5-methylphenyl)-N-(4-fluorophenyl)cyclopropane-1,1-dicarboxamide	
36	N-(3-fluoro-4-{[6-hydroxy-7-{methyloxy}quinolin-4-yl]oxy}phenyl)-N-(4-fluorophenyl)cyclopropane-1,l-dicarboxamide	
37	N-(4-fluorophenyl)-N-[2-methyl-4-([6-(methyloxy)-7-[(3-morpholin-4-ylpropyl)oxy]quinolin-4-yl]oxy)phenyl]cyclopropane-1,1-dicarboxamide	
38	N-[3-fluoro-4-([6-(methyloxy)-7-[(3-piperazin-1-ylpropyl)oxy]quinolin-4-yl}oxy)phenyl]-N- (4-fluorophenyl)cyclopropane-1,1-dicarboxamide	
39	W-{3-fluoro-d-[(6-(methyloxy)-7-{[3-(4-methylpiperazin-1-yl)propyl]oxy}quinolin-d-yl)oxy]phenyl}-M-(4-fluorophenyl)cyclopropane-l,1-dicarboxamide	
40	y  oxy  pneny  -N'-(4-fluoropheny  f-y  oxy  - f  oxy  -	
41	y1)oxy   pnenty -y-q-1uuropneny y-cy-npiy-oxy-n-t-1, -u-cu-uo-xaaniacu-   h-(4-fluoropheny )-h^-[4-(f-(methyloxy)-7-[(3-morpholin-4-ylpropy )oxy]quinolin-4-  y1}oxy)pheny  cyclopropane-1,1-dicarboxamide	
42	N-(4-{[7-{[3-(diethylamino)propyl]oxy}-6-(methyloxy)quinolin-4-yl]oxy}-3-fluorophenyl)-N-	
43	(4-fluorophenyl)cyclopropane-1,1-dicarboxamide  N-(4-{[6,7-bis(methyloxy)quinolin-4-y]]oxy}-2-chloro-5-fluorophenyl)-N-(4-	
44	fluorophenyl)cyclopropane-1,1-dicarboxamide  N-(4-{[6,7-bis(methyloxy)-2-(methylthio)quinolin-4-yl]oxy}-3-fluorophenyl)-N-(4-	
45	fluorophenyl)cyclopropane 1,1-dicarboxamide  N-(4-fluorophenyl)-N-(4-{2-methyl-6,7-bis(methyloxy)quinazolin-4- y loxy phenyl)cyclopropane-1,1-dicarboxamide	
46	N-(4-([2-amino-6,7-bis(methyloxy)quinolin-4-yl]oxy}-3-fluorophenyl)-N-(4-	
47	fluorophenyl)cyclopropane-1,1-dicarboxamide  N-(3-fluoro-4-{[2-(methylamino)-6,7-bis(methyloxy)quinolin-4-yl]oxy}phenyl)-N-(4-	
48	fluorophenyl)cyclopropane-1,1-dicarboxamide  (IS,2R)-N-[3-fluoro-4-([6-(methyloxy)-7-[(3-morpholin-4-ylpropyl)oxy]quinolin-4-	
49	\(\sqrt{1}\),\(\sq	
50	\(\partial_{\partial	
51	(4-fluorophenyl)cyclopropane-1,1-dicarboxamide  N-(4-{[6-{[2-(diethylamino)ethyl]oxy}-7-(methyloxy)quinolin-4-yl]oxy}-3-fluorophenyl)-N-	
	(4-fluorophenyl)cyclopropane-1,1-dicarboxamide  1,1-dimethylethyl 4-(3-{[4-{[2-fluoro-4-{[(1-{[(4-	
52	fluoropheny)jamino]carbonyl]cyclopropyl)carbonyl]amino}phenyl)oxy]-6- (methyloxy)quinolin-7-yl]oxy}propyl)piperazine-1-carboxylate	
53	(1R,2R)-N-[3-fluoro-4-({6-(methyloxy)-7-[(3-morpholin-4-ylpropyl)oxy]quinazolin-4-ylpropyl)-N-(4-fluorophenyl)-2-methylcyclopropane-1,1-dicarboxamide	
54	(1R,2R)-N-(4-{[7-{[2-(diethylamino)ethyl]oxy}-6-(methyloxy)quinazolin-4-yl]oxy}-3-	
55	N-(4-{[7-{[3-(diethylamino)propyl]oxy}-6-(methyloxy)quinazolin-4-yl]oxy}-3-tluorophenyl)-	
56	N-(4-{[7-{[3-(4-actylopierazin-1-yl)propy]]oxy}-6-(methyloxy)quinolin-4-yl]oxy}-3- fluorophenyl)-N-(4-fluorophenyl)cyclopropane-1,1-dicarboxamide	
57	III.dimethylihyl 4-(3-[4-[2-fluoro-4-[(([R,2R)-1-[((4-fluorophenyl)amino]carbonyl}-2-methylcyclopropyl)piperazine-1-carboxylate   Yljoxy propyl)piperazine-1-carboxylate   Yljoxy propyl)piperazine-1-carboxylate	
58	y1(0xy)propy)piperazine-1-ta-tooxyate N-(4-[[6,7-bis(methyloxy)quinolin-4-y1]oxy)phenyl)-N-(4-fluorophenyl)-1- (phenylmethyl)azetidine-3,3-dicarboxamide	
59	(pnenyimetry))azetidine-3,3-dicardoxamide  N-(4-{[6,7-bis(methyloxy)quinolin-4-yl]oxy}phenyl)-N-(4-fluorophenyl)azetidine-3,3-	

	Table 3c. Additional Representative c-MET Inhibitors
Entry	Name
	dicarboxamide
60	(1R 2S)-N-{3-fluoro-4-[(6-(methyloxy)-7-{[3-(4-methylpiperazin-1-y])propyl]oxy} quinolin-4-
00	yl)oxy]phenyl]-N-(4-fluorophenyl)-2-methylcyclopropane-l,1-dicarboxamide
61	(IR,2R)-N-{3-fluoro-4-[(6-(methyloxy)-7-{[3-(4-methylpiperazin-1-yl)propyl]oxy}quinolin-4-yl)oxy phenyl}-N-(4-fluorophenyl)-2-methyleyclopropane-1,1-dicarboxamide
62	(IR 2R)-N-(3-fluoro-4-(6-(methyloxy)-7-[(3-piperazin-1-ylpropyl)oxy]quinolin-4-
02	yl}oxy)phenyl]-M-(4-fluorophenyl)-2-methylcyclopropane-1,1-dicarboxamide
63	//-(3-fluoro-4-{[7-(3-[4-(1-methylethyl)piperazin-1-yl]propyl}oxy)-6-(methyloxy)quinolin-4-yl]oxy}phenyl)-W-(4-fluorophenyl)cyclopropane-1,1-dicarboxamide
	N-(4-{[7-{[3-(diethylamino)propyl]oxy}-6-(methyloxy)quinazolin-4-yl]oxy}-3-fluorophenyl)-
64	N-(4-fluorophenyl)cyclopropane-1.1-dicarboxamide
65	(1R 2R)-N-(4-{[7-{[3-(diethylamino)propyl]oxy}-6-(methyloxy)quinolin-4-yl]oxy}-3-
03	fluorophenyl)-N-(4-fluorophenyl)-2-methylcyclopropane-1,1-dicarboxamide
66	(IR,2R)-N-(4-{[7-{[2-(diethylamino)ethyl]oxy}-6-(methyloxy)quinolin-4-yl]oxy}-3- fluorophenyl)-N-(4-fluorophenyl)-2-methylcyclopropane-1,1-dicarboxamide
	(1P 2S) N_(4-1[7-1[3-(diethylamino)propylloxy}-6-(methyloxy)quinolin-4-yl]0xy}-3-
67	fluorophenyl)-N-(4-fluorophenyl)-2-methylcyclopropane-1, 1-dicarboxamide
	(1R 2S)-N-(4-{[7-{[2-(diethylamino)ethylloxy}-6-(methyloxy)quinolin-4-yl]oxy}-3-
68	Guerrahamil) At (4-fluorophenyl)-2-methylcyclopropane-1, 1-dicarboxamide
69	N-(4-{[7-{[2-(diethylamino)ethyl]oxy}-6-(methyloxy)quinazolin-4-yl]oxy}-3-fluorophenyl)-N-
	(4-fluorophenyl)cyclobutane-1,1-dicarboxamide (1R,2S)-N-[3-fluoro-4-({6-(methyloxy)-7-[(3-piperazin-1-ylpropyl)oxy]quinolin-4-
70	yl}oxy)phenyl]-N'-(4-fluorophenyl)-2-methylcyclopropane-1,1-dicarboxamide
	(1P 2P 2S) M-(3-fluoro-4-(16-(methyloxy)-7-[(3-morpholin-4-ylpropyl)oxy]quinolin-4-
71	vi) ovv)phenyll-M-(4-fluorophenyl)-2.3-dimethylcyclopropane-1,1-dicarboxamide
	(In 2P 2C) N (2 fluoro 4 (6 (methyloxy)-7-([3-(4-methylpiperazin-1-
72	yl)propyl]oxy]quinolin-4-yl)oxy]phenyl}-N-(4-fluorophenyl)-2,3-dimethylcyclopropane-1,1-
	dicarboxamide (1R,2R,3S)-N-[3-fluoro-4-({6-(methyloxy)-7-[(3-morpholin-4-ylpropyl)oxy]quinazolin-4-
73	vil ovv/phenyll-M-(4-fluorophenyl)-2.3-dimethylcyclopropane-1,1-dicarboxamide
74	(1R,2R,3S)-N-{3-fluoro-4-{(0-{literity to xy)-7-{(1-{literity to xy)-7-{(1-{literity to xy)-7-{(1-{literity to xy)-7-{(1-{(1-{(1-{(1-{(1-{(1-{(1-{(1-{(1-{(1
	disarbayamida
75	N-[3-fluoro-4-((6-(methyloxy)-7-[(3-morpholin-4-ylpropyl)oxy]quinazolin-4-yl}oxy)phenyl]-
13	N-(4-fluorophenyl)cyclobutane-1,1-dicarboxamide (2R,3R)-N-[3-fluoro-4-({6-(methyloxy)-7-[(3-morpholin-4-ylpropyl)oxy]quinolin-4-
76	)
	(2D 2D) N (4 ([7-[[3-(diethylamino)propylloxy]-6-(methyloxy)quinolin-4-yl]0Xy}-3-
77	Gueranhamid) AF (4 fluorophenyl)-2 3-dimethylcyclopropane-1, 1-dicarboxamide
	N./4-1[7-1[3-(diethylamino)propylloxy}-6-(methyloxy)quinolin-4-yijoxy}-3-ituoropiiciiyi)-1/
78	
79	(4-iluorophenyl)-2,2-umentylycupyropaie-1,-use-assanses N-[3-fluoro-4-({6-(methyloxy)-7(3-morpholin-4-ylpropyl)oxy]quinazolin-4-yl})oxy)phenyl]- N-[4-fluorophenyl)-2,2-dimethylcyclopropane-1,1-dicarboxamide
	(1R,2R,3S)-N-(4-[[7-{[3-(diethylamino)propyl]oxy}-6-(methyloxy)quinolin-4-yl]oxy}-3-
80	
	N_4_1[7_1[7_4]ethylamino)ethylloxy\-6-(methyloxy)quinoiin-4-yijoxy\-3-iiuoiopiieiiyi)-ii
81	(4 fluorophenyl)-2 2-dimethylcyclopropane-1,1-dicarboxamide
82	(up ap ac) N (4 (f2 (f2 (diethylamino)ethylloxy)-6-(methyloxy)guinoiin-4-yiloxy)-3-
82	fluorophenyl)-N-(4-fluorophenyl)-2,3-dimethylcyclopropane-1,1-dicarboxamide
83	M-[3-fluoro-4-(6-(methyloxy)-7-(3-morpholin-4-ylpropyl)oxy]quinolin-4-yl}oxy)phenyl]-M (4-fluorophenyl)-2,2-dimethylcyclopropane-1,1-dicarboxamide
	(4-fluorophenyl)-2,2-dimethylcyclopropane-1,1-dicardoxamide   N-(4-{[7-{[2-(diethylamino)ethyl]oxy}-6-(methyloxy)quinazolin-4-yl]oxy}-3-fluorophenyl)-N
84	
85	N-(4-{[7-{[3-(diethylamino)propyl]oxy}-6-(methyloxy)quinazolin-4-yl]oxy}-3-fluorophenyl)

Table 3c. Additional Representative c-MET Inhibitors	
Entry	Name
	N'-(4-fluorophenyl)-2,2-dimethylcyclopropane-1,1-dicarboxamide
86	N-(4-{[7-{[3-(diethylamino)propyl]oxy}-6-(methyloxy)quinazolin-4-yl]oxy}-3-fluorophenyl)-
87	N-{3-fluoro-4-[(6-(methyloxy)-7-{[3-(4-methylpiperazin-1-yl)propyl]oxy}quinazolin-4-
88	N-[3-fluoro-4-({6-(methyloxy)-7-[(3-piperazin-1-ylpropyl)oxy]quinazolin-4-yl}oxy)phenylj-N-
89	(2R,3R)-N-[3-fluoro-4-({6-(methyloxy)-7-[(3-morpholin-4-ylpropyl)oxy]quinazolin-4-
90	N-(4-{[7-{[3-(diethylamino)propy]]oxy}-6-(methyloxy)quinolin-4-yl]oxy}-3-fluorophenyl)-N-
91	N-{3-fluoro-4-[(6-(methyloxy)-7-{[3-(4-methylpiperazin-1-yl)propyl]oxy}quinolin-4-
92	(1R,2R)-N-(4-{[7-{[3-(diethylamino)propy]]oxy}-6-(methyloxy)quinazolin-4-yl]oxy}-3-
93	\(\frac{1(R,2R)-N-\{3-fluoropteny}\)^2-\(\frac{1}{2}\)-\(\frac{4-methyloxy}\)-7-\(\frac{1}{2}\)-4-methylpiperazin-1-yl)propyl]oxy\{  \qquad   \qquad \qquad  \qua
94	(2R,3R)-N-(4-{[7-{[2-(diethylamino)ethyl]oxy}-6-(methyloxy)quinazolin-4-yl]oxy}-5-
95	(2R,3R)-N-(4-{[7-{[3-(diethylamino)propyl]oxy}-6-(methyloxy)quinazolin-4-yl]oxy}-3-
96	[IR,2R)-N-[3-fluoro-4-({6-(methyloxy)-7-[(3-piperazin-1-ylpropy)]oxy]quinazolin-4- yl)oxy)phenyl]-N-(4-fluorophenyl)-2-methylcyclopropane-1,1-dicarboxamide
97	\(\(2\)\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
98	N-(4-{[6,7-bis(methyloxy)quinolin-4-yl]oxy}phenyl)-N-[(4-
99	fluorophenyl)methyl]cyclopropane-1,1-dicarboxamide  N-(4-{[6,7-bis(methyloxy)quinolin-4-yl]oxy}phenyl)-N-(2-morpholin-4-ylethyl)cyclopropane-
100	1.1-idicarboxamide  N-(4-{[6,7-bis(methyloxy)quinolin-4-yl]oxy}phenyl)-M-[2-(piperidin-1- ylmethyl)phenyl]cyclopropane-1,1-dicarboxamide
101	N-(4-{[6,7-bis(methyloxy)quinolin-4-yl]oxy)phenyl)-N-[2-(pyrrolidin-1-
102	N-(4-{[6,7-bis(methyloxy)quinolin-4-yl]oxy}phenyl)-N'-(3-(morpholin-4-
103	N-(4-{[6,7-bis(methyloxy)quinolin-4-y1]oxy}phenyl)-N-[2-(morpholin-4-
104	N-(4-{[6,7-bis(methyloxy)quinolin-4-yl]oxy}phenyl)-N'-phenylcyclopropane-1,1-
105	N-[3-(aminomethyl)phenyl]-N-(4-{[6,7-bis(methyloxy)quinolin-4-
106	N-(4-{[6,7-bis(methyloxy)quinolin-4-yl]oxy}phenyl)-N-[3-(piperidin-1-
107	N-(4-{[6,7-bis(methyloxy)quinolin-4-yl]oxy}phenyl)-M-[3-(pyrrolidin-1-
	yimethyliphenylicyclopropane-1, runca oxamoc a single geometric isomer, stereoisomer, racemate, enantiomer, or diastereomer, thereof and optionally as a pharmaceutically acceptable salt, solvate, or hydrate thereof.

Table 4. Representative EGFR and/or VEGFR Inhibitors	
Entry	Name
1	N-(3,4-dichloro-2-fluorophenyl)-7-({[(3aR,5r,6aS)-2-(1-

Name		
Entry	methylethyl)octahydrocyclopenta[c]pyrrol-5-yl]methyl}oxy)-6-(methyloxy)quinazolin-4-	
	amine  N-(4-bromo-3-chloro-2-fluorophenyl)-7-({[(3aR,5r,6aS)-2-(1-	
_	methylethyl)octahydrocyclopenta[c]pyrrol-5-yl]methyl}oxy)-6-(methyloxy)quinazolin-4-	
2	l and a	
	7. (11(3) P. 5r. 6aS)-2-acetyloctahydrocyclopenta[c]pyrrol-5-yl]methyl)oxy)-N-(4-bromo-	
3	2 -11 2 fluorenhenvil-6-(methyloxy)quinazolin-4-amine	
	1 V (4 hours 2 shless 2 fluorophenyl)-6-(methyloxy)-7-{[(3aR.5r.6aS)-	
4		
5	(methyloxy)quinazolin-7-yl]oxy}methyl)hexahydrocyclopenta[c]pyrrole-2(111)-	
	and anything	
6	N-(4-bromo-3-chloro-2-fluorophenyl)-6-(methyloxy)-7-({[(3aR,5r,6aS)-2-	
•		
7	N-(3,4-dichloro-2-fluorophenyl)-7-({[(3aR,5r,6aS)-2-ethyloctahydrocyclopenta[c]pyrrol-	
'	5-yl]methyl}oxy)-6-(methyloxy)quinazolin-4-amine	
	N-(3,4-dichloro-2-fluorophenyl)-6-(methyloxy)-7-([[(3aR,5r,6aS)-2-(2-	
•	M-(3,4-dichloro-2-fillorophenyl)-6-(filethyl)-7-([[(3da/b)lorophenyl)-6-(filethyl)-7-([[(3da/b)lorophenyl)-6-(filethyl)-7-([[(3da/b)lorophenyl)-6-(filethyl)-7-([[(3da/b)lorophenyl)-6-(filethyl)-7-([(3da/b)lorophenyl)-6-(filethyl)-6-	
9	N-(3,4-dichloro-2-fluorophenyl)-7-{{([(3aR,5s,6aS)-2-methyloctahydrocyclopenta[c]pyrrol-5-yl]methyl)-6-(methyloxy)quinazolin-4-amin	
10	N-(4-bromo-3-chloro-2-fluorophenyl)-7-({[(3aR,5s,6aS)-2-methyloctahydrocyclopenta[c]pyrrol-5-yl]methyl]oxy)-6-(methyloxy)quinazolin-4-amin	
11	N-(3-chloro-2,4-artiuoropnenyi)- (-{\{\cappa_0\sigma_0	
12	N-(4,5-dichloro-2-fluorophenyl)-7-{{([3ar,3s,0s,2s-2- methyloctahydrocyclopenta[c]pyrrol-5-y][methyl)oxy)-6-(methyloxy)quinazolin-4-amin	
13	N-(4-bromo-5-chloro-2-fluorophenyl)-7-({(13ax,3,5,0ab)-2-methylocyclopenta[e]pyrrol-5-yl]methyl)cyc)-6-(methyloxy)quinazolin-4-amir	
14		
	1 / (2 4 dichlorophenyl)-7-({[(3aR.5s.6aS)-2-methylocianyurocyclopena[c]p)	
15	vilmethylloxy)-6-(methyloxy)dunazonn-4-anine	
16		
17		
18		
19		
	1 1/4 b 5 ablaro 2 fluorophenyl) -7-{1(3K.9aS)-nexanydro-1r-[1,4]0xazmo[5,4	
20		
21	14 (2 -klass 2 4 diffuorophenyl)-7-{[(3K,9aS)-nexanydro-11i-[1,4]0xazino[5,4]	
21		
22	\(\frac{1}{3}\)-\(\frac{1}\)-\(\frac{1}{3}\)-\(\frac{1}\)-\(\frac{1}\)-\(\frac{1}\)-\(\frac{1}\)-\(\frac{1}\)-	
	N-(3,4-dichibro-2-tiludrophenyl)-7-{(methyloxy)-quinazolin-4-amine (][1,4]oxazin-3-yimethyl]oxy]-6-(methyloxy)-quinazolin-4-amine N-(4-bromo-3-chloro-2-fluorophenyl)-7-{((3S,9aS)-hexahydro-1H-[1,4]oxazino[3,4-N-(4-bromo-3-chloro-2-fluorophenyl)-7-{((3S,9aS)-hexahydro-1H-[1,4]oxazino[3,4-N-(4-bromo-3-chloro-2-fluorophenyl)-7-{((3S,9aS)-hexahydro-1H-[1,4]oxazino[3,4-N-(4-bromo-3-chloro-2-fluorophenyl)-7-{((3S,9aS)-hexahydro-1H-[1,4]oxazino[3,4-N-(4-bromo-3-chloro-2-fluorophenyl)-7-{((3S,9aS)-hexahydro-1H-[1,4]oxazino[3,4-N-(4-bromo-3-chloro-2-fluorophenyl)-7-{((3S,9aS)-hexahydro-1H-[1,4]oxazino[3,4-N-(4-bromo-3-chloro-2-fluorophenyl)-7-{((3S,9aS)-hexahydro-1H-[1,4]oxazino[3,4-N-(4-bromo-3-chloro-2-fluorophenyl)-7-{((3S,9aS)-hexahydro-1H-[1,4]oxazino[3,4-N-(4-bromo-3-chloro-2-fluorophenyl)-7-{((3S,9aS)-hexahydro-1H-[1,4]oxazino[3,4-N-(4-bromo-3-chloro-2-fluorophenyl)-7-{((3S,9aS)-hexahydro-1H-[1,4]oxazino[3,4-N-(4-bromo-3-chloro-2-fluorophenyl)-7-{((3S,9aS)-hexahydro-1H-[1,4]oxazino[3,4-N-(4-bromo-3-chloro-2-fluorophenyl)-7-{((3S,9aS)-hexahydro-1H-[1,4]oxazino[3,4-N-(4-bromo-3-chloro-2-fluorophenyl)-7-{((3S,9aS)-hexahydro-1H-[1,4]oxazino[3,4-N-(4-bromo-3-chloro-2-fluorophenyl)-7-{((3S,9aS)-hexahydro-1H-[1,4]oxazino[3,4-N-(4-bromo-3-chloro-2-fluorophenyl)-7-{((3S,9aS)-hexahydro-1H-[1,4]oxazino[3,4-N-(4-bromo-3-chloro-2-fluorophenyl)-7-{((3S,9aS)-hexahydro-1H-[1,4]oxazino[3,4-N-(4-bromo-3-chloro-2-fluorophenyl)-7-{((3S,9aS)-hexahydro-1H-[1,4]oxazino[3,4-N-(4-bromo-3-chloro-2-fluorophenyl)-7-{((3S,9aS)-hexahydro-1H-[1,4]oxazino[3,4-N-(4-bromo-3-chloro-2-fluorophenyl)-7-{((3S,9aS)-hexahydro-1H-[1,4]oxazino[3,4-N-(4-bromo-3-chloro-2-fluorophenyl)-7-{((3S,9aS)-hexahydro-1H-[1,4]oxazino[3,4-N-(4-bromo-3-chloro-2-fluorophenyl)-7-{((3S,9aS)-hexahydro-1H-[1,4]oxazino[3,4-N-(4-bromo-3-chloro-2-fluorophenyl)-7-((4-bromo-3-chloro-2-fluorophenyl)-7-((4-bromo-3-chloro-2-fluorophenyl)-7-((4-bromo-3-chloro-2-fluorophenyl)-7-((4-bromo-3-chloro-2-fluorophenyl)-7-((4-bromo-3-chloro-2-fluorophenyl)-7-((4-bromo-3-chloro-2-fluorophenyl)	
23		
4.5	C][1,4]oxazin-3-ylmethyl[oxy]-0-(methyloxy)dullazonin-alinia N-(3-chloro-2,4-difluorophenyl)-7-{[(38,9a8)-hexahydro-1H-[1,4]oxazino[3,4-	
24	N-(3-chloro-2,4-difluorophenyl)-7-{[(35,935)-inexanyuto-fir-[1,7]oxazin-3-ylmethyl]oxy}-6-(methyloxy)quinazolin-4-amine	
	C[[1,4]oxazin-3-yImethy1[0xy]-6-(methy10xy)4maashii-4 united   N-(3,4-dichlorophenyl)-7-[(hexahydro-1H-[1,4]oxazino[3,4-c][1,4]oxazin-3-	
25	N-(3,4-dichlorophenyl)-7-[(hexanyaro-1r-[1,4]0xazhio[3,7-0][1,4]0xuslarus ylmethyl)oxy]-6-(methyloxy)quinazolin-4-amine	

Table 4. Representative EGFR and/or VEGFR Inhibitors		
Entry	Name	
26	N-(4,5-dichloro-2-fluorophenyl)-7-{[(3S,9aS)-hexahydro-1H-[1,4]oxazino[3,4-c][1,4]oxazin-3-ylmethyl]oxy}-6-(methyloxy)quinazolin-4-amine	
27	N-(4-bromo-2,3-dichlorophenyl)-7-{[(3S,9aS)-hexahydro-1H-[1,4]oxazino[3,4-	
28	N-(4-bromo-5-chloro-2-fluorophenyl)-7-{[(3S,9aS)-hexahydro-1H-[1,4]oxazino[3,4-c][1,4]oxazin-3-ylmcthyl]oxy}-6-(methyloxy)quinazolin-4-amine	
29	N-(3,4-dichloro-2-fluorophenyl)-7-{[(3R,9aS)-hexahydro-1H-[1,4]oxazino[3,4-	
30	N-(4-bromo-3-chloro-2-fluorophenyl)-7-{[(3R,9aS)-hexahydro-1H-[1,4]oxazino[3,4-c][1,4]oxazin-3-ylmethyloxy}-6-(methyloxy)quinazolin-4-amine	
31	N-(3,4-dichlorophenyl)-7-{[(3R,8aR)-hexahydro-1H-pyrrolo[2,1-c][1,4]oxazin-3-	
32	N-(4-bromo-5-chloro-2-fluorophenyl)-7-{[(3S,8aS)-hexahydro-1H-pyrrolo[2,1-	
33	N-(3,4-dichlorophenyl)-7-{[(3S,8aR)-hexahydro-1H-pyrrolo[2,1-c][1,4]oxazin-3-ydmethylloxyl-6-(methyloxylouinazolin-4-amine	
34	N-(3,4-dichlorophenyl)-7-{[(3S,8aS)-hexahydro-1H-pyrrolo[2,1-c][1,4]oxazin-3-ylmethylloxy}-6-(methyloxy)quinazolin-4-amine	
35	N-(3,4-dichlorophenyl)-7-{[(3R,8aS)-hexahydro-1H-pyrrolo[2,1-c][1,4]oxazin-3-	
36	N-(3,4-dichloro-2-fluorophenyl)-7-{[(3S,8aS)-hexahydro-1H-pyrrolo[2,1-c][1,4]oxazin-	
37	N-(4-bromo-3-chloro-2-fluorophenyl)-7-{((3S,8aS)-hexahydro-1H-pyrrolo[2,1-	
38	N-(3-chloro-2,4-difluorophenyl)-7-{[(3S,8aS)-hexahydro-1H-pyrrolo[2,1-c][1,4]oxazın-	
39	N-(4-bromo-2,3-dichlorophenyl)-7-{[(3S,8aS)-hexahydro-1H-pytrolo[2,1-c][1,4]oxazin-	
40	N-(4,5-dichloro-2-fluorophenyl)-7-{[(3S,8aS)-hexahydro-1H-pyrrolo[2,1-c][1,4]oxazın-	
41	1,4:3,6-dianhydro-5-({[4-[(4-bromo-5-chloro-2-fluorophenyl)amino]-6-	
42	1,4:3,6-dianhydro-5-deoxy-5-({[4-[(3,4-dichlorophenyl)amino]-0-	
43	1,4:3,6-dianhydro-5-deoxy-5-({[4-[(3,4-dichloro-2-fluorophenyl)amino]-6-	
44	1,4:3,6-dianhydro-5-({[4-[(4-bromo-3-chloro-2-fluorophenyl)amino]-6- (methyloxy)quinazolin-7-ylloxy}methyl)-5-deoxy-2-O-methyl-D-xylo-hexitol	
45	1,4:3,6-dianhydro-5-({[4-[(3-chloro-2,4-difluorophenyl)amino]-6-	
46	1,4:3,6-dianhydro-5-({[4-[(4-bromo-2,3-dichlorophenyl)ammo]-6-	
47	1,4:3,6-dianhydro-2-deoxy-2-({[4-[(3,4-dichlorophenyt)aminoj-6-	
48	1,4:3,6-dianhydro-5-deoxy-5-({[4-[(4,5-dichloro-2-fluorophenyl)amino]-6-	
49	(3S,9aS)-3-([[4-[(3,4-dichloro-2-fluorophenyl)amino]-6-(methyloxy)quinazolin-/-	
50	(3S,9aR)-3-({[4-[(3,4-dichloro-2-fluorophenyl)amino]-6-(methyloxy)quinazolin-/-	
	(3S,8aS)-3-({[4-[(3,4-dichloro-2-fluorophenyl)amino]-6-(methyloxy)quinazolin-7-	

Entry	xy)quinazolin-7- inazolin-7- nino]ethyl}oxy)- iazolo[4,3-
19   190xy methylhexahydropyrolo[1,2-a]pyrazin-1(2H)-one   3S,8aS)-3-([14-1(4-bromo-3-chloro-2-fluorophenyl)amino]-6-(methylo-yl)oxy methyl hexahydropyrolo[1,2-a]pyrazin-1(2H)-one   3S,8aS)-3-([14-1(3,4-dichloro-2-fluorophenyl)amino]-6-(methyloxy)quinoyy)-2-methylhexahydropyrolo[1,2-a]pyrazin-1(2H)-one   N-(3,4-dichlorophenyl)-7-(12-1(8-methyl-8-azabicyclo[3,2.1]oct-3-yl)at-6-(methyloxy)quinazolin-4-amine   N-(3,4-dichlorophenyl)-6-(methyloxy)-7-([(8aR)-ternahydro-1H-[1,3]th-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	xy)quinazolin-7- inazolin-7- nino]ethyl}oxy)- iazolo[4,3-
35,8a5)-3-([4-[4-brono-3-chloro-2-fluorophenyi)amino]-6-(methylo-yllosy) methylyheaknyldropyrolo[12-allpynzair. [CH]-0 net yllosy) methylyheaknyldropyrolo[12-allpynzair. [CH]-0 net yllosy) methyly-2-methylkeaknyldropyrolo[1,2-allpynzair. [CH]-0 ne	ninoJethyl}oxy)- iazolo[4,3-
y  oxy methyl)-2-methylhexahydropyrrolc[1,2-a]pyrazin-1(2H)-one   N-(3,4-dichlorophenyl)-7-{(2-{(8-methyl-8-azabicyclo[3.2.1]oct-3-yl)at6-dethyloxy}-y uniazolin-4-amine   N-(3,4-dichlorophenyl)-6-{(methyloxy)-7-{[(8aR)-tetrahydro-1H-[1,3]th6-c][1,4]oxazin-6-y methylloxy}-1/2-(8-methyl-8-azabicyclo[3.2.1]oct-3-yl)ethyl-1/2-(3-4-dichlorophenyl-7-{(1/2-(8-methyl-8-azabicyclo[3.2.1]oct-3-yl)ethyl-8-azabicyclo[3.2.1]oct-3-yl)ethyl-1/2-(3-8-methyl-8-azabicyclo[3.2.1]oct-3-yl)ethyl-1/2-(3-8-methyl-8-azabicyclo[3.2.1]oct-3-yl)ethyl-1/2-(3-8-methyl-8-azabicyclo[3.2.1]oct-3-yl)ethyl-1/2-(3-8-methyl-8-azabicyclo[3.2.1]oct-3-yl)ethyl-1/2-(3-8-methyl-8-azabicyclo[3.2.1]oct-3-yl)ethyl-1/2-(3-8-methyl-8-azabicyclo[3.2.1]oct-3-yl)ethyl-1/2-(3-8-methyl-8-azabicyclo[3.2.1]oct-3-yl)ethyl-1/2-(3-8-methyl-8-azabicyclo[3.2.1]oct-3-yl)ethyl-1/2-(3-8-methyl-8-azabicyclo[3.2.1]oct-3-yl)ethyl-1/2-(3-8-methyl-8-azabicyclo[3.2.1]oct-3-yl)ethyl-1/2-(3-8-methyl-8-azabicyclo[3.2.1]oct-3-yl)ethyl-1/2-(3-8-methyl-8-azabicyclo[3.2.1]oct-3-yl)ethyl-1/2-(3-8-methyl-8-azabicyclo[3.2.1]oct-3-yl)ethyl-1/2-(3-8-methyl-8-azabicyclo[3.2.1]oct-3-ylethyl-1/2-(3-8-methyl-8-azabicyclo[3.2.1]oct-3-ylethyl-1/2-(3-8-methyl-8-azabicyclo[3.2.1]oct-3-ylethyl-1/2-(3-8-methyl-8-azabicyclo[3.2.1]oct-3-ylethyl-1/2-(3-8-methyl-8-azabicyclo[3.2.1]oct-3-ylethyl-1/2-(3-8-methyl-8-azabicyclo[3.2.1]oct-3-ylethyl-1/2-(3-8-methyl-8-azabicyclo[3.2.1]oct-3-ylethyl-1/2-(3-8-methyl-8-azabicyclo[3.2.1]oct-3-ylethyl-1/2-(3-8-methyl-8-azabicyclo[3.2.1]oct-3-ylethyl-1/2-(3-8-methyl-8-azabicyclo[3.2.1]oct-3-ylethyl-1/2-(3-8-methyl-8-azabicyclo[3.2.1]oct-3-ylethyl-1/2-(3-8-methyl-8-azabicyclo[3.2.1]oct-3-ylethyl-1/2-(3-8-methyl-8-azabicyclo[3.2.1]oct-3-ylethyl-1/2-(3-8-methyl-8-azabicyclo[3.2.1]oct-3-ylethyl-1/2-(3-8-methyl-8-azabicyclo[3.2.1]oct-3-ylethyl-1/2-(3-8-methyl-8-azabicyclo[3.2.1]oct-3-ylethyl-1/2-(3-8-methyl-8-azabicyclo[3.2.1]oct-3-ylethyl-1/2-(3-8-methyl-8-azabicyclo[3.2.1]oct-3-ylethyl-1/2-(3-8-methyl-8-azabicyclo[3.2.1]oct-3-ylethyl-1/2-(3-8-methyl-8-azabicyclo[3.2.	nino]ethyl}oxy)- iazolo[4,3-
55 6-(methyloxy)quinazolin-4-amine N-(3,4-dichlorophenyl)-6-(methyloxy)-7-{{(8aR}-tetrahydro-1H-[1,3]th c][1,4]oxazin-6-ylmethyl]oxy)quinazolin-4-amine N-(3,4-dichlorophenyl)-7-{(2-/8-methyl-8-azabicyclo[3,2,1]oct-3-y)let	iazolo[4,3-
c][1,4]oxazin-6-ylmethyl]oxy}quinazolin-4-amine	
N-(3.4-dichlorophenyl)-7-{[2-(8-methyl-8-azabicyclof3.2.1]oct-3-yl)et	1yl]oxy}-6-
(methyloxy)quinazolin-4-amine	
58 N-(3,4-dichlorophenyl)-7-{[(8-methyl-8-azabicyclo[3.2.1]oct-3-yl)meth	
N-(3,4-dichlorophenyl)-7-{[(3aR,6aS)-2-methyloctahydrocyclopenta[c]	
60 N-(3,4-dichlorophenyl)-7-[(8-methyl-8-azabicyclo[3.2.1]oct-3-yl)oxy]- (methyloxyluniazolin-4-amine	
61 [1,4:3,6-dianhydro-2-O-[4-[(4-bromo-5-chloro-2-fluorophenyl)amino]-(methyloxy)quinazolin-7-yl]-5-O-methyl-L-iditol	5- 
62 1,4:3,6-dianhydro-2-O-[4-[(3,4-dichloro-2-fluorophenyl)amino]-6- (methyloxy)quinazolin-7-yl]-5-O-methyl-L-iditol	
63 [1,4:3,6-dianhydro-2-O-[4-[(4-bromo-3-chloro-2-fluorophenyl)amino]- (methyloxylouinazolin-7-yl]-5-O-methyl-L-iditol	6- 
64 1,4:3,6-dianhydro-2-O-methyl-5-O- {6-(methyloxy)-4-[(2,3,4-	
65 1,4:3,6-dianhydro-5-O-[4-[(3,4-dichlorophenyl)amino]-6-(methyloxy)	quinazolin-7-yl]-2-
1,4:3,6-dianhydro-2-O-[4-[(4-bromo-2,3-dichlorophenyl)amino]-6-	
67 1,4:3,6-dianhydro-5-O-[4-[(4-bromo-3-chlorophenyl)amino]-6-(methy	loxy)quinazolin-7-
68 1,4:3,6-dianhydro-2-O-[4-[(3-chloro-2,4-difluorophenyl)amino]-6-	
69 [1,4:3,6-dianhydro-2-O-[4-[(4,5-dichloro-2-fluorophenyl)amino]-6-	
70 1,4:3,6-dianhydro-2-O-[4-[(4-bromo-3-chlorophenyl)amino]-6-(meth)	
71 1,4:3,6-dianhydro-2-O-[4-[(3-chloro-2-fluorophenyl)amino]-6-(methy	
72 1,4:3,6-dianhydro-2-O-[4-[(3,4-dichlorophenyl)amino]-6-(methyloxy)	
73 1,4:3,6-dianhydro-2-O-[4-[(4-bromo-3-chlorophenyl)amino]-6-(methy	
74 1,4:3,6-dianhydro-2-O-[4-[(4-bromo-3-chlorophenyl)amino]-6-(methy	
75 1,4:3,6-dianhydro-2-O-[4-[(3-bromo-2-methylphenyl)amino]-6-(meth	
76 1,4:3,6-dianhydro-2-O-[4-[(3-chloro-2-methylphenyl)amino]-6-(meth	
1,4:3,6-dianhydro-2-O-[4-[(4-bromo-3-chlorophenyl)amino]-6-(methyl)-5-deoxy-D-xylo-hexitol	yloxy)quinazolin-7-

	Table 4. Representative EGFR and/or VEGFR Inhibitors		
Entry	Name		
78	1,4:3,6-dianhydro-2-O-[4-[(4-bromo-3-chlorophenyl)amino]-6-(methyloxy)quinazolin-7-yll-5-O-methyl-D-glucitol		
79	methyl 3,6-anhydro-5-O-[4-[(4-bromo-3-chlorophenyl)amino]-6-(methyloxy)quinazolin-7-yl]-2-O-methyl-alpha-L-idofuranoside		
80	3,6-anhydro-5-O-[4-[(4-bromo-3-chlorophenyl)amino]-6-(methyloxy)quinazolin-7-yl]- 1,2-O-(1-methylethylidene)-beta-L-xylo-hexofuranose		
81	1,4:3,6-dianhydro-2-O-[4-[(4-bromo-3-chlorophenyl)amino]-6-(methyloxy)quinazolin-7- yl]-5-deoxy-5-methylidene-D-xylo-hexitol		
82	methyl 3,6-anhydro-5-O-[4-[(4-bromo-3-chlorophenyl)amino]-6-(methyloxy)quinazolin-7-yl]-2-O-methyl-beta-L-idofuranoside		
83	N-(3,4-dichloro-2-fluorophenyl)-6-(methyloxy)-7-[(octahydro-2H-quinolizin-3-ylmethyl)oxy]quinazolin-4-amine		
84	1,4:3,6-dianhydro-2-deoxy-2-fluoro-5-O-(6-(methyloxy)-4-[(2,3,4-trifluorophenyl)amino]quinazolin-7-yl}-D-iditol		
85	1,4:3,6-dianhydro-5-O-[4-[(2-chloro-4-fluorophenyl)amino]-6-(methyloxy)quinazolin-7-		
86	1,4:3,6-dianhydro-5-O-[4-[(2-bromo-4-fluorophenyl)amino]-6-(methyloxy)quinazolin-7-		
87	1,4:3,6-dianhydro-2-deoxy-5-O-[4-[(2,6-difluorophenyl)amino]-6-		
88	1,4:3,6-dianhydro-5-O-[4-[(3-chloro-2-fluorophenyl)amino]-6-(methyloxy)quinazolin-7-		
89	1,4:3,6-dianhydro-2-deoxy-2-fluoro-5-O-[4-{[4-fluoro-3- (rrifluoromethyl)phenyllamino}-6-(methyloxy)quinazolin-7-yl]-D-iditol		
90	1,4:3,6-dianhydro-2-deoxy-5-O-[4-[(2,4-difluorophenyl)amino]-6- (methyloxy)quinazolin-7-yl]-2-fluoro-D-iditol		
91	1,4:3,6-dianhydro-2-deoxy-5-O-[4-[(2,5-difluorophenyl)amino]-6-		
92	1,4:3,6-dianhydro-2-deoxy-5-O-[4-[(2,3-difluorophenyl)amino]-6- (methyloxy)quinazolin-7-yl]-2-fluoro-D-iditol		
93	(heavyxxy/quinazollin-7- 1,4:3,6-dianhydro-5-O-[4-[(5-chloro-2-fluorophenyl)amino]-6-(methyloxy)quinazollin-7- yl]-2-deoxy-2-fluoro-D-iditol		
94	1,4:3,6-dianhydro-2-deoxy-5-O-[4-[(3,5-difluorophenyl)amino]-6-		
95	1,4:3,6-dianhydro-5-O-[4-[(3-chloro-4-fluorophenyl)amino]-6-(methyloxy)quinazolin-/-		
96	1,4:3,6-dianhydro-5-O-[4-[(4-bromo-2-chlorophenyl)amino]-6-(methyloxy)quinazolin-7-		
97	1,4:3,6-dianhydro-2-deoxy-5-O-[4-[(3,4-dichloro-2-fluorophenyl)amino]-6-		
98	1,4:3,6-dianhydro-5-O-[4-[(4-bromo-5-chloro-2-fluorophenyl)amino]-6- (methyloxy)quinazolin-7-yl}-2-deoxy-2-fluoro-D-iditol		
99	1,4:3,6-dianhydro-2-deoxy-2-fluoro-5-O-{6-(methyloxy)-4-[(2,4,5-trifluorophenyl)amino]quinazolin-7-yl}-D-iditol		
100	1,4:3,6-dianhydro-2-deoxy-2-fluoro-5-O-{6-(methyloxy)-4-[(2,4,6-		
101	1,4:3,6-dianhydro-5-O-[4-([4-[(4-chlorophenyl)oxy]-3,5-diffuorophenyl] amino)-6-		
102	1,4:3,6-dianhydro-5-O-[4-[(4-bromo-3-chloro-2-fluorophenyl)amino]-6- (methyloxy)quinazolin-7-yl]-2-deoxy-2-fluoro-D-iditol		
103	1,4:3,6-dianhydro-5-O-[4-[(4-bromo-2,3-dichlorophenyl)amino]-6- (methyloxy)quinazolin-7-yl]-2-deoxy-2-fluoro-D-iditol		

	Table 4. Representative EGFR and/or VEGFR Inhibitors	
Entry	Name	
104	1,4:3,6-dianhydro-5-O-[4-[(4-bromo-3-chloro-5-fluorophenyl)amino]-6- (methyloxy)quinazolin-7-yl]-2-deoxy-2-fluoro-D-iditol	
105	1,4:3,6-dianhydro-2-deoxy-5-O-[4-[(4,5-dichloro-2-fluorophenyl)amino]-6- (methyloxy)quinazolin-7-yl]-2-fluoro-D-iditol	
106	1,4:3,6-dianhydro-2-deoxy-2-fluoro-5-O-{6-(methyloxy)-4-[(2,3,4-trichlorophenyl)amino]quinazolin-7-yl}-D-iditol	
107	1,4:3,6-dianhydro-2-deoxy-2-fluoro-5-O-{6-(methyloxy)-4-[(3,4,5-trichlorophenyl)amino]quinazolin-7-yl}-D-iditol	
108	1,4:3,6-dianhydro-5-O-[4-[(4-bromo-2-fluorophenyl)amino]-6-(methyloxy)quinazolin-7-yl]-2-deoxy-2-fluoro-D-iditol	
109	1,4:3,6-dianhydro-5-O-[4-[(4-chloro-2-fluorophenyl)amino]-6-(methyloxy)quinazolin-7-yl]-2-deoxy-2-fluoro-D-iditol	
110	1,4:3,6-dianhydro-5-O-[4-[(3-chloro-2-methylphenyl)amino]-6-(methyloxy)quinazolin-7-yl]-2-deoxy-2-fluoro-D-idito]	
111	1,4:3,6-dianhydro-2-deoxy-5-O-[4-[(3,4-difluorophenyl)amino]-6- (methyloxy)quinazolin-7-yl]-2-fluoro-D-iditol	
112	1,4:3,6-dianhydro-5-O-[4-[(2-chlorophenyl)amino]-6-(methyloxy)quinazolin-7-yl]-2-deoxy-2-fluoro-D-iditol	
113	1,4:3,6-dianhydro-2-deoxy-2-fluoro-5-O-[4-[(2-fluorophenyl)amino]-6- (methyloxy)quinazolin-7-yl]-D-iditol	
114	1,4:3,6-dianhydro-5-O-[4-[(3-chlorophenyl)amino]-6-(methyloxy)quinazolin-7-yl]-2-deoxy-2-fluoro-D-iditol	
115	1,4:3,6-dianhydro-2-deoxy-2-fluoro-5-O-[4-[(4-fluorophenyl)amino]-6- (methyloxy)quinazolin-7-yl]-D-iditol	
116	1,4:3,6-dianhydro-5-O-[4-[(4-chlorophenyl)amino]-6-(methyloxy)quinazolin-7-yl]-2-deoxy-2-fluoro-D-iditol	
117	1,4:3,6-dianhydro-2-deoxy-5-O-[4-[(2,4-dichlorophenyl)amino]-6- (methyloxy)quinazolin-7-yl]-2-fluoro-D-iditol	
118	1,4:3,6-dianhydro-2-deoxy-5-O-[4-[(2,5-dichlorophenyl)amino]-6- (methyloxy)quinazolin-7-yl]-2-fluoro-D-iditol	
119	1,4:3,6-dianhydro-2-deoxy-5-O-[4-[(3,4-dichlorophenyl)amino]-6- (methyloxy)quinazolin-7-yl]-2-fluoro-D-iditol	
120	1,4:3,6-dianhydro-5-O-[4-[(2-bromo-4,6-difluorophenyl)amino]-6- (methyloxy)quinazolin-7-yl]-2-deoxy-2-fluoro-D-iditol	
121	1,4:3,6-dianhydro-5-O-[4-{[4-chloro-3-(trifluoromethyl)phenyl]amino}-6- (methyloxy)quinazolin-7-yl]-2-deoxy-2-fluoro-D-iditol	
122	1,4:3,6-dianhydro-5-C-[4-{[2-chloro-5-(trifluoromethyl)phenyl]amino}-6- (methyloxy)quinazolin-7-yl]-2-deoxy-2-fluoro-D-iditol	
123	(trifluoromethyl)phenyl]amino}-6-(methyloxy)quinazolin-7-yl]-D-iditol	
124	1,4:3,6-dianhydro-5-O-[4-{[2-bromo-5-(trifluoromethyl)phenyl]amino}-6- (methyloxy)quinazolin-7-yl]-2-deoxy-2-fluoro-D-iditol	
125	1,4:3,6-dianhydro-5-O-[4-{[2-bromo-4-(trifluoromethyl)phenyl]amino}-6- (methyloxy)quinazolin-7-yl]-2-deoxy-2-fluoro-D-iditol	
126	1,4:3,6-dianhydro-2-deoxy-2-fluoro-5-O-[4-{[4-fluoro-2- ((rifluoromethyl)phenyl]amino}-6-(methyloxy)quinazolin-7-yl]-D-iditol	
127	1,4:3,6-dianhydro-5-O-[4-{[3-bromo-5-(trifluoromethyl)phenyl]amino}-6- (methyloxy)quinazolin-7-yl]-2-deoxy-2-fluoro-D-iditol	
128	1,4:3,6-dianhydro-5-O-[4-[(2-bromophenyl)amino]-6-(methyloxy)quinazolin-7-yl]-2-deoxy-2-fluoro-D-iditol	
129	1,4:3,6-dianhydro-5-O-[4-[(3-bromophenyl)amino]-6-(methyloxy)quinazolin-7-yl]-2-deoxy-2-fluoro-D-iditol	

1.4.3.6-dianhydro-5-O-[4-[(4-bromopheny)]amino]-6-(methyloxy)quinazolin-7-yl]-2-deoxy-2-fluoro-D-iditol		Table 4. Representative EGFR and/or VEGFR Inhibitors	
deoxy-2-fluoro-D-iditol	Entry		
131   y  2-deoxy-2-fluoro-D-iditol   1,4:3,6-dianhydro-S-O-(1-4(5-schoro-2-methylphenyl)amino)-6-(methyloxy)quinazolin-7-y  2-deoxy-2-fluoro-D-iditol   1,4:3,6-dianhydro-3-deoxy-5-O-(1-4(5-schoro-2-methylphenyl)amino)-6-(methyloxy)quinazolin-7-y  2-deoxy-2-fluoro-D-iditol   1,4:3,6-dianhydro-3-O-(4-1(2,5-bis/methyloxy)phenyl]amino)-6-(methyloxy)quinazolin-7-y  2-deoxy-2-fluoro-D-iditol   1,4:3,6-dianhydro-5-O-(4-1(3,5-bis/methyloxy)phenyl]amino)-6-(methyloxy)quinazolin-7-y  2-deoxy-2-fluoro-D-iditol   1,4:3,6-dianhydro-5-O-(4-1(4-bioro-2,5-bis(methyloxy)phenyl]amino)-6-(methyloxy)quinazolin-7-y  2-deoxy-2-fluoro-D-iditol   1,4:3,6-dianhydro-5-O-(4-1(4-bioro-2,5-bis(methyloxy)phenyl)amino)-6-(methyloxy)quinazolin-7-y  2-deoxy-2-fluoro-D-iditol   1,4:3,6-dianhydro-5-O-(4-1(3-chioro-2,4-difuorophenyl)amino)-6-(methyloxy)quinazolin-7-y  2-deoxy-2-fluoro-D-iditol   1,4:3,6-dianhydro-5-O-(4-1(3-chioro-2,4-difuorophenyl)amino)-6-(methyloxy)quinazolin-4-amino   1,4:3,6-dianhydro-5-O-(4-1(3-chiorophenyl)amino)-6-(methyloxy)quinazolin-4-amino   1,4:3,6-dianhydro-phenyl)-7-((3-1(dimethylamino)methyl)-1,2,4-oxadiazol-3-yl)methyl)oxy)-6-(methyloxy)quinazolin-4-amino   1,4:3,6-dianhydro-phenyl)-6-(methyloxy)-7-1((3-1(4-methylpiperatin-1-yl)methyl)-1,2,4-oxadiazol-3-yl)methyl)oxy)quinazolin-4-amino   1,4:4-dianhydro-phyl-6-(methyloxy)-7-1((3-1(methylamino)methyl)-1,2,4-oxadiazol-3-yl)methyl)oxy)quinazolin-4-amino   1,4:4-dianhydro-phyl-6-(methyloxy)-7-1((3-(morpholin-4-yln-1,2,4-oxadiazol-3-yl)methyl)oxy)quinazolin-4-amino   1,4:4-dianhydro-phyl-6-(methyloxy)-7-1((3-(morpholin-4-yln-1),4-oxadiazol-3-yl)methyl)oxy)quinazolin-4-amino   1,4:4-dianhydro-phyl-6-(methyloxy)-7-1((3-(morpholin-4-yln-1),4-oxadiazol-3-yl)methyl)oxyquinazolin-4-amino   1,4:4-dianhydro-phonyl-6-(methyloxy)-7-1((4-(penyhmethyl)noryhu)-1,3-thiazol-4-yl-1,4-dianhydro-1-dianhydro-1-dianhydro-1-dianhydro-1-dianhydro-1-dianhydro-1-dianhydro-1-dianhydro-1-dianhydro-1-dianhydro-1-dianhydro-1-dianhydro-1-dianhydro-1-dianhydro-1-dianhydro-1-dianhydro-1-dianhydro	130	deoxy-2-fluoro-D-iditol	
132	131	yl]-2-deoxy-2-fluoro-D-iditol	
(methyloxy)quinazolin-7-yl)2-fluoro-D-iditol	132	yl]-2-deoxy-2-fluoro-D-iditol	
134   7-y-  -2-deoxy-2-fluoro-D-iditol   1,43,6-diathydro-5-O-[4-[[5-chloro-2,4-bis(methyloxy)phenyl]amino]-6-(methyloxy)quinazolin-7-yl]-2-deoxy-2-fluoro-D-iditol   1,43,6-diathydro-5-O-[4-[[5-chloro-2,4-diluorophenyl]amino]-6-(methyloxy)quinazolin-7-yl]-2-deoxy-2-fluoro-D-iditol   1,43,6-diathydro-5-O-[4-[[4-chloro-2,4-difluorophenyl]amino]-6-(methyloxy)quinazolin-7-yl]-2-deoxy-2-fluoro-D-iditol   1,43,6-diathydro-5-O-[4-[4]-chloro-2,4-difluorophenyl]amino]-6-(methyloxy)quinazolin-7-yl]-2-deoxy-2-fluoro-D-iditol   1,43,6-diathydro-5-O-[4-[4]-(3-chloro-2,4-difluorophenyl)amino]-6-(methyloxy)quinazolin-4-yl-1]-2,4-oxadiazol-3-yl)methyloxy]-6-(methyloxy)quinazolin-4-mine   1,43,4-dichlorophenyl-7-(methyloxy)-7-([3-4]-(4-methylpiperazin-1-yl)methyl]-1,2,4-oxadiazol-5-yl)methyloxy]-6-(methyloxy)-7-([[5-(1-methylpiperidin-4-yl-1,2,4-oxadiazol-3-yl)methyl)oxy]quinazolin-4-amine   1,43,4-dichlorophenyl-6-(methyloxy)-7-([[5-(1-methylpiperidin-4-yl-1,2,4-oxadiazol-3-yl)methyl)oxy]quinazolin-4-amine   1,43,4-dichlorophenyl-6-(methyloxy)-7-([[6-(1-methylpiperidin-4-yl-1,2,4-oxadiazol-3-yl)methyl)oxy]quinazolin-4-amine   1,43,4-dichlorophenyl-6-(methyloxy)-7-([(3-(morpholin-4-yl-1,2,4-oxadiazol-3-yl)methyl)oxy]quinazolin-4-amine   1,43,4-dichlorophenyl-6-(methyloxy)-7-([(3-(morpholin-4-yl-1,2,4-oxadiazol-3-yl)methyl)oxy]quinazolin-4-amine   1,43,4-dichlorophenyl-6-(methyloxy)-7-([(4-(phenylmethyl)morpholin-2-yl)methyl)oxy]quinazolin-4-amine   1,43,4-dichlorophenyl-6-(methyloxy)-7-([(4-(phenylmethyl)morpholin-2-yl)methyl)morpholin-4-amine   1,43,4-dichlorophenyl-6-(methyloxy)-7-([(4-(phenylmethyl)morpholin-2-yl)methyl)morpholin-4-amine   1,43,4-dichlorophenyl-6-(methyloxy)-7-([(4-(phenylmethyl)morpholin-4-amine   1,44,4-dichlorophenyl-6-(methyloxy)-7-([(4-(methylmethyl-1,3-thiazol-4-yl)methyl)nay)-1,44,4-dichlorophenyl-6-(methyloxy)-7-([(4-(methylmethyl-1,4-oxadiazol-3-yl)methyl)nay)-1,4-(methyloxy)-1,4-(methyloxy)-1,4-(methyloxy)-1,4-(methyloxy)-1,4-(methyloxy)-1,4-(methyloxy)-1,4-(methyloxy)-1,4-(methyloxy)-1,4-(methyl	133	(methyloxy)quinazolin-7-yl]-2-fluoro-D-iditol	
14.3.6-dianhydro-5-O-[4-(f.5-chloro-2,4-bis(methyloxy)plamino)-6-(methyloxy)guinazolin-7-yl-2-deoxy-2-thuoro-D-iditol   1,43.6-dianhydro-5-O-[4-(f.4-chloro-2,5-bis(methyloxy)plamino)-6-(methyloxy)guinazolin-7-yl-2-deoxy-2-thuoro-D-iditol   1,43.6-dianhydro-5-O-[4-(f.4-chloro-2,4-bis(methyloxy)plamino)-6-(methyloxy)guinazolin-7-yl-2-deoxy-2-thuoro-D-iditol   1,43.6-dianhydro-5-O-[4-(f.3-chloro-2,4-difuorophenyl)amino]-6-(methyloxy)guinazolin-7-yl-2-deoxy-2-thuoro-D-iditol   1,43.6-dianhydro-5-O-[4-(f.3-chloro-2,4-difuorophenyl)amino]-6-(methyloxy)guinazolin-7-d-amine   1,43.6-dianhydro-9-(f.4-(f.4-chlorophenyl)-1,2,4-oxadiazol-3-yl)methyl)oxy]-6-(methyloxy)quinazolin-4-amine   1,43.6-dia-florophenyl)-6-(methyloxy)-7-(f.3-(f.4-methylpiperazin-1-y)methyl]-1,2,4-oxadiazol-3-yl)methyl)oxy]quinazolin-4-amine   1,43.6-dia-florophenyl)-6-(methyloxy)-7-(f.3-(f.1-methylpiperatin-4-yl)-1,2,4-oxadiazol-3-yl)methyl)oxy]quinazolin-4-amine   1,43.6-dia-florophenyl)-6-(methyloxy)-7-(f.3-(morpholin-4-yl)methyl)-1,2,4-oxadiazol-3-yl)methyl)oxy]quinazolin-4-amine   1,43.6-dia-florophenyl)-6-(methyloxy)-7-(f.5-piperidin-2-yl-1,2,4-oxadiazol-3-yl)methyl)oxy]quinazolin-4-amine   1,43.6-dia-florophenyl)-6-(methyloxy)-7-(f.5-piperidin-2-yl-1,2,4-oxadiazol-3-yl)methyl)oxy]quinazolin-4-amine   1,43.6-dia-florophenyl)-6-(methyloxy)-7-(f.6-piperidin-2-yl-1,2,4-oxadiazol-3-yl)methyl)oxy]quinazolin-4-amine   1,43.6-dia-florophenyl-6-(methyloxy)-7-(f.4-(phenylmethyl)morpholin-2-yl-1,2,4-oxadiazol-3-yl-1,	134	7-v11-2-deoxy-2-fluoro-D-iditol	
14:3;6-dianhydro-5-O;1-4[4-chloro-2;5-bis(methyloxy)pilmino)-6-(methyloxy)quinazolin-7y]-2-deox-9-2-lluoro-1-dilotl   13:6-dianhydro-5-O;1-4(3-chloro-2;4-difluorophenyl)amino)-6-(methyloxy)quinazolin-7y]-2-deox-9-2-lluoro-1-dilotl   13:8-dianhydro-5-O;1-4(3-chloro-2;4-difluorophenyl)amino)-6-(methyloxy)quinazolin-7-y]-2-deox-9-2-diloto-1-dilotl   13:8-di-dichlorophenyl)-7-{([3-(dimethylamino)methyl]-1,2,4-oxadiazol-3-y])methylloxy]-6-(methyloxy)quinazolin-4-amine   14:9-di-dichlorophenyl)-6-(methyloxy)-7-{([3-(d-methylapino)methyl]-1,2,4-oxadiazol-5-y])methylloxy}-guinazolin-4-amine   14:0-di-dichlorophenyl)-6-(methyloxy)-7-{([3-(d-methylapiperazin-1-y))methyl]-1,2,4-oxadiazol-3-y]methylloxy]quinazolin-4-amine   14:0-di-dichlorophenyl)-6-(methyloxy)-7-{([3-(methyloxy)-7-{([3-(methyloxy)-1-(d-methylapiperazin-1-y))methyl]-1,2,4-oxadiazol-3-y]methylloxy]quinazolin-4-amine   14:0-di-dichlorophenyl)-6-(methyloxy)-7-{([3-(methyloxy)-1-(d-methyloxy-1-(d-me	135	1,4:3,6-dianhydro-5-O-[4-{[5-chloro-2,4-bis(methyloxy)phenyl]amino}-6- (methyloxy)quinazolin-7-yl]-2-deoxy-2-fluoro-D-iditol	
1,4:3,6-dianhydro-5-O-[44(3-chloro-2,4-difluorophenyl)amino]-6-(methyloxy)quinazolin-7yl]-2-deoxy-2-fluoro D-(-iditol)   M-(3,4-dichlorophenyl)-7-((3-(dimethylamino)methyl]-1,2,4-oxadiazol-3-yl)methyl)oxy]-6-(methyloxy)quinazolin-4-amine   M-(3,4-dichlorophenyl)-7-((3-(dimethylamino)methyl)-1,2,4-oxadiazol-5-yl)methyl)oxy]-6-(methyloxy)quinazolin-4-amine   M-(3,4-dichlorophenyl)-6-(methyloxy)-7-(((3-(di-methylamino)methyl)-1,2,4-oxadiazol-3-yl)methyl)oxy]quinazolin-4-amine   M-(3,4-dichlorophenyl)-6-(methyloxy)-7-(((5-(1-methylapiperazin-1-yl)methyl)-1,2,4-oxadiazol-3-yl)methyl)oxy]quinazolin-4-amine   M-(3,4-dichlorophenyl)-6-(methyloxy)-7-(((5-(1-methylapiperdin-4-yl-1,2,4-oxadiazol-3-yl)methyl)oxy]quinazolin-4-amine   M-(3,4-dichlorophenyl)-6-(methyloxy)-7-(((5-(1-methylapiperdin-4-yl-1,2,4-oxadiazol-3-yl)methyl)oxy]quinazolin-4-amine   M-(3,4-dichlorophenyl)-6-(methyloxy)-7-(((5-piperdin-2-yl-1,2,4-oxadiazol-3-yl)methyl)oxy]quinazolin-4-amine   M-(3,4-dichlorophenyl)-6-(methyloxy)-7-(((5-piperdin-2-yl-1,2,4-oxadiazol-3-yl)methyl)oxy]quinazolin-4-amine   M-(3,4-dichlorophenyl)-6-(methyloxy)-7-(((4-ptenyl)methyl)morpholin-2-yl-methyloxy)quinazolin-4-amine   M-(3,4-dichlorophenyl)-6-(methyloxy)-7-(((4-ptenyl)methyl)morpholin-2-yl-methyloxy)-1-((1-qtenyl)methyl)morpholin-2-yl-methyloxy)-1-((1-qtenyl)methyl)morpholin-2-yl-methyloxy)-1-((1-qtenyl)methyl)morpholin-2-yl-methyloxy)-1-((1-qtenyl)methyl)morpholin-2-yl-methyloxy)-1-((1-qtenyl)methyl)morpholin-2-yl-methyloxy)-1-((1-qtenyl)methyl)morpholin-2-yl-methyloxy)-1-((1-qtenyl)methyl)morpholin-2-yl-methyloxy)-1-((1-qtenyl)methyl)morpholin-2-yl-methyloxy)-1-((1-qtenyl)methyl)morpholin-2-yl-methyloxy)-1-((1-qtenyl)methyl)morpholin-2-yl-methyloxy)-1-((1-qtenyl)methyl)morpholin-2-yl-methyloxy)-1-((1-qtenyl)methyl)morpholin-2-yl-methyloxy)-1-((1-qtenyl)methyl)morpholin-2-yl-methyloxy)-1-((1-qtenyl)methyl)morpholin-2-yl-methyloxy)-1-((1-qtenyl)methyl)morpholin-2-yl-methyloxy)-1-((1-qtenyl)methyl)morpholin-2-yl-methyloxy)-1-((1-qtenyl)methyl)morpholin-2-yl-methyloxy)-	136	1,4:3,6-dianhydro-5-O-[4-{[4-chloro-2,5-bis(methyloxy)phenyl]amino}-6- (methyloxy)quinazolin-7-yl]-2-deoxy-2-fluoro-D-iditol	
133	137	1.4:3.6-dianhydro-5-O-[4-[(3-chloro-2,4-difluorophenyl)amino]-6-	
139	138	N-(3.4-dichlorophenyl)-7-[({5-[(dimethylamino)methyl]-1,2,4-oxadiazol-3-	
140	139	N-(3.4-dichlorophenyl)-7-[({3-[(dimethylamino)methyl]-1,2,4-oxadiazol-5-	
141	140	N-(3.4-dichlorophenyl)-6-(methyloxy)-7-[({3-[(4-methylpiperazin-1-yl)methyl]-1,2,4-	
142	141	N-(3.4-dichlorophenyl)-6-(methyloxy)-7-{[(5-piperidin-4-yl-1,2,4-oxadiazol-3-	
143	142	N-(3,4-dichlorophenyl)-6-(methyloxy)-7-({[5-(1-methylpiperidin-4-yl)-1,2,4-oxadiazol-	
144   M-(3,4-dichlorophenyl)-6-(methyloxy)-7-{(morpholin-2-ylmethyl)oxy}quinazolin-4-amine	143	N-(3,4-dichlorophenyl)-6-(methyloxy)-7-({[3-(morpholin-4-ylmethyl)-1,2,4-oxadiazol-5-	
145   M-(3,4-dichloropheny))-6-(methyloxy)-7-{((3-piperidin-2-yl-1,2,4-oxadiazol-3-y))methylloxy}quinazolin-4-amine	144	N-(3,4-dichlorophenyl)-6-(methyloxy)-7-[(morpholin-2-ylmethyl)oxy]quinazolin-4-	
146   M-(3,4-dichlorophenyl)-7-(((2-(dimethylamino)methyl)-1,3-thiazol4-yl)methyl)oxyl-dimethyloxyl-dimethyloxyl-dimethyloxyl-dimethyloxyl-6-(methyloxy)-6-(methyloxy)-6-(methyloxy)-6-(methyloxy)-6-(methyloxy)-6-(methyloxy)-6-(methyloxy)-6-(methyloxy)-6-(methyloxy)-6-(methyloxy)-6-(methyloxy)-6-(methyloxy)-6-(methyloxy)-7-((2-(morpholin-4-ylmethyl)-1,3-thiazol4-yl)methyl)oxyl-guinazolin-4-amine   M-(3,4-dichlorophenyl-6-(methyloxy)-7-((2-(d-methylipperazin-1-yl)methyl)-1,3-thiazol4-yl)methyl)oxyl-guinazolin-4-amine   M-(3,4-dichlorophenyl-6-(methyloxy)-7-((1-(d-methylipperazin-2-yl)methyl)-0xyl-guinazolin-4-amine   M-(3,4-dichlorophenyl-6-(methyloxy)-7-((1-0-xazepan-2-ylmethyl)oxyl-guinazolin-4-amine   M-(3,4-dichlorophenyl-6-(methyloxy)-7-((1-0-xazepan-2-ylmethyl)oxyl-guinazolin-4-amine   M-(3,4-dichlorophenyl-6-(methyloxy)-7-((1-0-xazepan-2-ylmethyl-1,2-(a-xadiazol-3-ylmethyl)oxyl-guinazolin-4-amine   M-(3,4-dichlorophenyl-6-(methyloxy)-7-(([5-(1-methylipperidin-2-yl)-1,2,4-oxadiazol-3-ylmethyl)oxyl-guinazolin-4-amine   M-(3,4-dichlorophenyl-6-(methyloxy)-7-((1-0-xazepan-2-yl)methyl)oxyl-guinazolin-4-amine   M-(3,4-dichlorophenyl-6-(methyloxy)-7-((1-0-xazepan-2-yl)methyl)oxyl-guinazolin-4-amine   M-(3,4-dichlorophenyl)-6-(methyloxy)-7-((1-0-xazepan-2-yl)methyl)oxyl-guinazolin-4-amine   M-(3,4-dichlorophenyl)-6-(methyloxyl-dichlorophenyl)-6-(methyloxyl-dichlorophenyl)-6-(methyloxyl-dichlorophenyl)-6-(methyloxyl-dichlorophenyl)-6-(methyloxyl-dichlorophenyl)-6-(methyloxyl-dichlorophenyl-dichlorop	145	N-(3,4-dichlorophenyl)-6-(methyloxy)-7-{[(5-piperidin-2-yl-1,2,4-oxadiazol-3-	
147	146	N-(3,4-dichlorophenyl)-7-[({2-[(dimethylamino)methyl]-1,3-thiazol-4-yl}methyl)oxy]-6-	
1.1 -dimethylethyl 2-{([4-(3,4-dichlorophenyl)amino}-6-(methyloxy)quinazolin-7- juloyyimethylmorpholine-4-carboxylate   149	147	N-(3,4-dichlorophenyl)-6-(methyloxy)-7-({[4-(phenylmethyl)morpholin-2-	
149	148	1.1-dimethylethyl 2-({[4-[(3,4-dichlorophenyl)amino]-6-(methyloxy)quinazolin-7-	
M-(3,4-dichlorophenyl)-6-(methyloxy)-7-{((2-{(4-methylpiperazin-1-y))methyl)-1,3-thizpol-4-y) methylyoxy[quinazolin-4-mine   N-(3,4-dichlorophenyl)-7-{((4-methylmorpholin-2-yl)methyl]oxy}-6-(methyloxy)quinazolin-4-amine   N-(3,4-dichlorophenyl)-6-(methyloxy)-7-{(1,4-oxazepan-2-ylmethyl)oxy}quinazolin-4-amine   N-(3,4-dichlorophenyl)-6-(methyloxy)-7-{([5-piperidin-3-yl-1,2,4-oxadiazol-3-y)methyl]oxy]quinazolin-4-amine   N-(3,4-dichlorophenyl)-6-(methyloxy)-7-{([5-(1-methylpiperidin-2-yl)-1,2,4-oxadiazol-3-ylmethyl)oxy]oxy]oxinazolin-4-amine   N-(3,4-dichlorophenyl)-7-{([6-(1-methylpiperidin-2-yl)-1,2,4-oxadiazol-3-ylmethyl)oxy]oxy]oxinazolin-4-amine   N-(3,4-dichlorophenyl)-7-{([6-(1-methylpiperidin-2-yl)-1,2,4-oxadiazol-3-ylmethyl)oxy]oxinazolin-4-amine   N-(3,4-dichlorophenyl)-7-{([6-(1-methylpiperidin-2-yl)-1,2,4-oxadiazol-3-ylmethyl)-1,4-oxadiazol-3-ylmethyl)-1,4-oxadiazol-3-ylmethyl)-1,4-oxadiazol-3-ylmethyl)-1,4-oxadiazol-3-ylmethyl)-1,4-oxadiazol-3-ylmethyl)-1,4-oxadiazol-3-ylmethyl)-1,4-oxadiazol-3-ylmethyl)-1,4-oxadiazol-3-ylmethyl)-1,4-oxadiazol-3-ylmethyl]-1,4-oxadiazol-3-ylmethyl)-1,4-oxadiazol-3-ylmethyl)-1,4-oxadiazol-3-ylmethyl]	149	N-(3,4-dichlorophenyl)-6-(methyloxy)-7-({[2-(morpholin-4-ylmethyl)-1,3-thiazol-4-	
M-(3,4-dichlorophenyl)-7-[((4-methylmorpholin-2-yl)methyl]oxy]-6-   M-(3,4-dichlorophenyl)-6-(methyloxy)-7-[(1,4-oxazepan-2-ylmethyl)oxy]quinazolin-4-   M-(3,4-dichlorophenyl)-6-(methyloxy)-7-[([3-piperidin-3-yl-1,2,4-oxadiazol-3-y)methyl]oxy]quinazolin-4-amine   M-(3,4-dichlorophenyl)-6-(methyloxy)-7-[([5-(1-methylpiperidin-2-yl)-1,2,4-oxadiazol-3-yl)methyl]oxy]quinazolin-4-amine   M-(3,4-dichlorophenyl)-6-([methyloxy)-7-([(5-(1-methylpiperidin-2-yl)-1,2,4-oxadiazol-3-yl)methyl]oxy]quinazolin-4-amine	150	N-(3.4-dichlorophenyl)-6-(methyloxy)-7-[({2-[(4-methylpiperazin-1-yl)methyl]-1,3-	
(menyioxy, humazolin-4-mine) 152 M; 3.4 dichlorophenyi)-6-(methyloxy)-7-{(1,4-oxazepan-2-ylmethyl)oxy)quinazolin-4-amine 153 M; 3.4-dichlorophenyi)-6-(methyloxy)-7-{([5-piperidin-3-yl-1,2,4-oxadiazol-3-y)methyl]oxy}quinazolin-4-amine 154 M; 3.4-dichlorophenyi)-6-(methyloxy)-7-{([5-(1-methylpiperidin-2-yl)-1,2,4-oxadiazol-3-ylmethyl)oxy)quinazolin-4-amine 154 M; 3.4-dichlorophenyi)-7-{([4-methylpiperidin-2-yl)-1,2,4-oxadiazol-3-ylmethyl)oxy)-dichlorophyl)-7-{([4-methylpiperidin-2-yl)-1,2,4-oxadiazol-3-ylmethyl)oxy)-6-	151	N-(3,4-dichlorophenyl)-7-{[(4-methylmorpholin-2-yl)methyl]oxy}-6-	
amme 153 M;3.4-dichlorophenyl)-6-(methyloxy)-7-{{(5-piperidin-3-yl-1,2,4-oxadiazol-3-y)methylloxy}quinazolin-4-amine 154 M;3.4-dichlorophenyl)-6-(methyloxy)-7-{{(15-(1-methylpiperidin-2-y)l-1,2,4-oxadiazol-3-y)methyl)oxy}quinazolin-4-amine 154 M;3.4-dichlorophenyl)-7-{{(16-methylpiperidin-2-y)l-1,2,4-oxadiazol-3-y)methyl)oxy}dinazolin-4-amine 154 M;3.4-dichlorophenyl)-7-{{(16-methyl-1,4-oxazepan-2-y)methyl)oxy}-6-		N-(3,4-dichlorophenyl)-6-(methyloxy)-7-[(1,4-oxazepan-2-ylmethyl)oxy]quinazolin-4-	
154  M-(3,4-dichlorophenyl)-6-(methyloxy)-7-({[5-(1-methylpiperidin-2-yl)-1,2,4-oxadiazol-3-yl]methyl) oxy)quinazolin-4-amine  M-(3,4-dichlorophenyl)-7-({[(4-methyl-1,4-oxazepan-2-yl)methyl]oxy}-6-		N-(3,4-dichlorophenyl)-6-(methyloxy)-7-{[(5-piperidin-3-yl-1,2,4-oxadiazol-3-	
7-y1jmetny1)oxy)quinazolin-4-amule N-(3,4-dichlorophenyl)-7-{[(4-methyl-1,4-oxazepan-2-y1)methyl]oxy}-6-		N-(3,4-dichlorophenyl)-6-(methyloxy)-7-({[5-(1-methylpiperidin-2-yl)-1,2,4-oxadiazol-	
		N-(3,4-dichlorophenyl)-7-{[(4-methyl-1,4-oxazepan-2-yl)methyl]oxy}-6-	

	Table 4. Representative EGFR and/or VEGFR Inhibitors	
Entry	Name	
156	N-(3,4-dichlorophenyl)-6-(methyloxy)-7-({[5-(1-methylpiperidin-3-yl)-1,2,4-oxadiazol-3-yl]methyl}oxy)quinazolin-4-amine	
157	N-(3,4-dichlorophenyl)-7-({[5-(1,1-dimethylethyl)-1,2,4-oxadiazol-3-yl]methyl}oxy)-6-(methyloxy)quinazolin-4-amine	
158	N-(3,4-dichlorophenyl)-6-(methyloxy)-7-{[(2-phenyl-1,3-thiazol-4-yl)methyl]oxy}quinazolin-4-amine	
159	7-[(2,1,3-benzothiadiazol-4-ylmethyl)oxy]-N-(3,4-dichlorophenyl)-6- (methyloxy)quinazolin-4-amine	
160	N-(3,4-dichlorophenyl)-7-{[(5-methylisoxazol-3-yl)methyl]oxy}-6- (methyloxy)quinazolin-4-amine	
161	N-(3,4-dichlorophenyl)-6-(methyloxy)-7-{[(5-methyl-4-phenylisoxazol-3-yl)methyl]oxy}quinazolin-4-amine	
162	7-[(1,3-benzothiazol-2-ylmethyf)oxy]-N-(3,4-dichlorophenyl)-6-(methyloxy)quinazolin- 4-amine	
163	7-[(2,1,3-benzoxadiazol-5-ylmethyl)oxy]-N-(3,4-dichlorophenyl)-6- (methyloxy)quinazolin-4-amine	
164	N-(3,4-dichlorophenyl)-6-(methyloxy)-7-({[2-(2-thienyl)-1,3-thiazol-4-yl]methyl}oxy)quinazolin-4-amine	
165	N-(3,4-dichlorophenyl)-6-(methyloxy)-7-{[(1-phenyl-1H-pyrazol-4-y)]methyl]oxy}quinazolin-4-amine	
166	N-(3,4-dichlorophenyl)-6-(methyloxy)-7-[((5-[3-(trifluoromethyl)phenyl]-1,2,4-oxadiazol-3-yl] methyl)oxy]quinazolin-4-amine	
167	N-(3,4-dichlorophenyl)-6-(methyloxy)-7-[({5-[4-(trifluoromethyl)phenyl]-1,2,4-	
168	7-({[3-(4-chlorophenyl)-1,2,4-oxadiazol-5-yl]methyl}oxy)-N-(3,4-dichlorophenyl)-6- (methyloxy)quinazolin-4-amine	
169	(methyloxy)quinazolin-4-amine	
170	N-(3,4-dichlorophenyl)-6-(methyloxy)-7-[(1,3-thiazol-4-ylmethyl)oxy]quinazolin-4-	
171	a-mine 7-{[(6-chloropyridin-3-yl)methyl]oxy}-N-(3,4-dichlorophenyl)-6-(methyloxy)quinazolin- 4-amine	
172	N-(3,4-dichlorophenyl)-6-(methyloxy)-7-[(pyridin-4-ylmethyl)oxy]quinazolin-4-amine	
173	N-(3,4-dichlorophenyl)-6-(methyloxy)-7-{[(2-methyl-1,3-thiazol-4-yl)methyl]oxy] quinazolin-4-amine	
174	7-{{(6-chloro-4H-1,3-benzodioxin-8-yl)methyl]oxy}-N-(3,4-dichlorophenyl)-6- (methyloxy)quinazolin-4-amine	
175	7-{[(5-chloro-1-methyl-3-phenyl-1H-pyrazol-4-yl)methyl]oxy}-N-(3,4-dichlorophenyl)-	
176	N-(3,4-dichlorophenyl)-6-(methyloxy)-7-({[1-methyl-3-(trifluoromethyl)-1H-thieno[2,3-c]pyrazol-5-y ]methyl}oxy)quinazolin-4-amine	
177	N-(3,4-dichlorophenyl)-6-(methyloxy)-7-{[(3-phenylisoxazol-5-y])methyl]oxy}quinazolin-4-amine	
178	N-(3,4-dichlorophenyl)-6-(methyloxy)-7-{[(2,4,6-trimethylphenyl)methyl]oxy}quinazolin-4-amine	
179	N-(3,4-dichlorophenyl)-6-(methyloxy)-7-[(pyridin-3-ylmethyl)oxy]quinazolin-4-amine	
180	N-(3,4-dichlorophenyl)-6-(methyloxy)-7-[({3-[4-(methyloxy)phenyl]isoxazol-5-yl} methyl)oxy]quinazolin-4-amine	
181	M-(3,4-dichlorophenyl)-7-{([5-[(2,4-dichlorophenyl)oxy]-1-methyl-3-(trifluoromethyl)-   H-pyrazol-4-yl]methyl}oxy)-6-(methyloxy)quinazolin-4-amine	
182	7-[(cyclopropylmethyl)oxy]-N-(3,4-dichlorophenyl)-6-(methyloxy)quinazolin-4-amine	

	Table 4. Representative EGFR and/or VEGFR Inhibitors	
Entry	Name	
183	N-(3,4-dichlorophenyl)-6-(methyloxy)-7-[(tetrahydrofuran-2-ylmethyl)oxy]quinazolin-4-amine	
184	7-(cyclopentyloxy)-N-(3,4-dichlorophenyl)-6-(methyloxy)quinazolin-4-amine	
185	7-[(2-cyclohexylethyl)oxy]-N-(3,4-dichlorophenyl)-6-(methyloxy)quinazolin-4-amine	
186	7-[(cyclohexylmethyl)oxy]-N-(3,4-dichlorophenyl)-6-(methyloxy)quinazolin-4-amine	
187	7-[(cyclobutylmethyl)oxy]-N-(3,4-dichlorophenyl)-6-(methyloxy)quinazolin-4-amine	
188	N-(3,4-dichlorophenyl)-7-{[2-(1,3-dioxolan-2-yl)ethyl]oxy}-6-(methyloxy)quinazolin-4-amine	
189	N-(3,4-dichlorophenyl)-7-{[2-(1,3-dioxan-2-yl)ethyl]oxy}-6-(methyloxy)quinazolin-4-amine	
190	N-(3,4-dichlorophenyl)-6-(methyloxy)-7-[(2-morpholin-4-ylethyl)oxy]quinazolin-4- amine	
191	N-(3,4-dichlorophenyl)-6-(methyloxy)-7-[(2-pyrrolidin-1-ylethyl)oxy]quinazolin-4-amine	
192	N-(3,4-dichlorophenyl)-6-(methyloxy)-7-[(2-piperidin-1-ylethyl)oxy]quinazolin-4-amine	
193	2-(2-{[4-[(3,4-dichlorophenyl)amino]-6-(methyloxy)quinazolin-7-yl]oxy)ethyl)-1H-isoindole-1,3(2H)-dione	
194	methyl 6-O-[4-[(3,4-dichlorophenyl)amino]-6-(methyloxy)quinazolin-7-yl]-alpha-D- glucopyranoside	
195	N-(3,4-dichlorophenyl)-6-(methyloxy)-7-[(2-morpholin-4-yl-2-oxoethyl)oxy]quinazolin-4-amine	
196	1,1-dimethylethyl 2-[3-({[4-[(3,4-dichlorophenyl)amino]-6- (methyloxy)quinazolin-7-yl]oxy}methyl)-1,2,4-oxadiazol-5-yl]piperidine-1-carboxylate	
197	1,1-dimethylethyl 4-[3-({[4-[(3,4-dichlorophenyl)amino]-6- (methyloxy)quinazolin-7-ylloxy}methyl)-1,2,4-oxadiazol-5-yl]piperidine-1-carboxylate	
198	N-(3,4-dichlorophenyl)-6-(methyloxy)-7-({[4-(4-pyrrolidin-1-ylphenyl)-1,3-thiazol-2-yllmethyl)oxylouinazolin-4-amine	
199	N-(3,4-dichlorophenyl)-7-[({4-(diethylamino)phenyl]-1,3-thiazol-2-yl}methyl)oxy]-6- (methyloxy)quinazolin-4-amine	
200	5-[2-([4-[(3,4-dichlorophenyl)amino]-6-(methyloxy)quinazolin-7-yl]oxy}methyl)-1,3-thlazol-4-yl]-2-hydroxybenzamide	
201	N-(3,4-dichlorophenyl)-6-(methyloxy)-7-{[(4-pyridin-3-yl-1,3-thiazol-2-yl)methyl]oxy}quinazolin-4-amine	
202	///	
203	y/)methylox/ydunazon	
204	y)_meny joxy quinazoin=4-amine N-(3,4-dichlorophenyl)-6-(methyloxy)-7-{[(2-morpholin-4-yl-1,3-thiazol-4-yl)methyl]oxy quinazolin-4-amine	
205	y/metaly/loxy/quinazonin-a-amine  N-(3,4-dichlorophenyl)-6-(methyloxy)-7-{[(3-morpholin-4-yl-1,2,4-oxadiazol-5-y))methyl]oxy}quinazolin-4-amine	
206	y)/methyljoxy/quinazoiii-4-amine //-(3,4-dichlorophenyl)-7-{{[3-(dimethylamino)-1,2,4-oxadiazol-5-yl]methyl}oxy)-6- (methyloxy)quinazoliii-4-amine	
207	(metnyloxyquinazoin-4-amine N-(3,4-dichlorophenyl)-6-(methyloxy)-7-[( (4-[(4-methylpiperazin-1-yl)methyl]-1,3- thiazol-2-yl) methyl)oxylquinazolin-4-amine	
208	thiazo1-2-yi menyjoxy jeunazonn-4-anine N-(3,4-dichlorophenyl)-6-(methyloxy)-7-[(4,5,6,7-tetrahydro[1,3]thiazolo[5,4-c]pyridin-2-ylmethyl)oxy[quinazolin-4-anine	
209	Z-ymeny)joxyqumazonianine N-(3,4-dichlorophenyl)-6-(methyloxy)-7-({[4-(morpholin-4-ylmethyl)-1,3-thiazol-2-yl]methyl}oxy)quinazolin-4-amine	

	Table 4. Representative EGFR and/or VEGFR Inhibitors	
Entry	Name	
210	N-(3,4-dichlorophenyl)-7-[({4-[(4-methyl-1,4-diazepan-1-yl)methyl]-1,3-thiazol-2-yl) methyl)oxy]-6-(methyloxy)quinazolin-4-amine	
211	N-(3,4-dichlorophenyl)-6-(methyloxy)-7-{[(5-{[(phenylmethyl)oxy]methyl}-1,2,4-oxadiazol-3-yl)methyl]oxy}quinazolin-4-amine	
212	N-(3,4-dichlorophenyi)-7-{[(4-ethylmorpholin-2-yl)methyl]oxy}-6- (methyloxy)quinazolin-4-amine	
213	N-(3,4-dichlorophenyl)-6-(methyloxy)-7-{[(2-piperidin-4-yl-1,3-thiazol-4-yl)methyl]oxy}quinazolin-4-amine	
214	N-(3,4-dichlorophenyl)-6-(methyloxy)-7-({[2-(1-methylpiperidin-4-yl)-1,3-thiazol-4-yl]methyl}oxy)quinazolin-4-amine	
215	1,1-dimethylethyl 4-[5-({[4-[(3,4-dichlorophenyl)amino]-6-(methyloxy)quinazolin-7- yl]oxy}methyl)-1,2,4-oxadiazol-3-yl]piperazine-1-carboxylate	
216	N-(3,4-dichlorophenyl)-6-(methyloxy)-7-{[(3-piperazin-1-yl-1,2,4-oxadiazol-5-yl)methyl]oxy}quinazolin-4-amine	
217	// (3-4-dichlorophenyl)-6-(methyloxy)-7-({[3-(4-methylpiperazin-1-yl)-1,2,4-oxadiazol-5-yl]methyl}oxy)quinazolin-4-amine	
218	N-(3,4-dichlorophenyl)-7-({[5-(1-ethylpiperidin-2-yl)-1,2,4-oxadiazol-3-yl]methyl}oxy)-6-(methyloxy)quinazolin-4-amine	
219	N-(3,4-dichlorophenyl)-7-([[3-(4-ethylpiperazin-1-yl)-1,2,4-oxadiazol-5-yl]methyl)oxy)-6-(methyloxy)quinazolin-4-amine	
220	N-(3,4-dichlorophenyl)-6-(methyloxy)-7-[({5-[4-(methyloxy)phenyl]-1,2,4-oxadiazol-3-yl}methyl)oxy]quinazolin-4-amine	
221	//-(3.4-dichlorophenyl)-6-(methyloxy)-7-[((2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-4- yl}methyl)oxy]quinazolin-4-amine	
222	7-({[2-(4-chlorophenyl)-1,3-thiazol-4-yl}methyl}oxy)-N-(3,4-dichlorophenyl)-6- (methyloxy)quinazolin-4-amine	
223	//-(3,4-dichlorophenyl)-7-({[5-(3,5-dimethylisoxazol-4-yl)-1,2,4-oxadiazol-3-yl]methyl}oxy)-6-(methyloxy)quinazolin-4-amine	
224	7-{{(5-chloro-1-benzothien-3-yl)methyl]oxy}-N-(3,4-dichlorophenyl)-6- (methyloxy)quinazolin-4-amine	
225	N-(3,4-dichlorophenyl)-7-[({3-[4-(1,1-dimethylethyl)phenyl]-1,2,4-oxadiazol-5-yl}methyl)oxy]-6-(methyloxy)quinazolin-4-amine	
226	//-(3,4-dichlorophenyl)-6-(methyloxy)-7-[([5-[2-(methyloxy)phenyl]-1,2,4-oxadiazol-3-yl}methyl)oxy quinazolin-4-amine	
227	//-(3,4-dichlorophenyl)-6-(methyloxy)-7-({[5-(4-methylphenyl)-1,3,4-oxadiazol-2-y ]methyl}oxy)quinazolin-4-amine	
228	//-(3/4-dichlorophenyl)-6-(methyloxy)-7-({[1-(phenylmethyl)-1H-imidazol-2-y ]methyl}oxy)quinazolin-4-amine	
229	// (3,4-dichlorophenyl)-7-{{[3-(2,6-dichlorophenyl)-5-methylisoxazol-4-yl]methyl}oxy}-6-(methyloxy)quinazolin-4-amine	
230	N-(3,4-dichlorophenyl)-7-{[(6-fluoro-4H-1,3-benzodioxin-8-yl)methyl]oxy}-6- (methyloxy)quinazolin-4-amine	
231	7-{[(3,5-dibromophenyl)methyl]oxy}-N-(3,4-dichlorophenyl)-6-(methyloxy)quinazolin- 4-amine	
232	A-(3,4-dichlorophenyl)-7-{[(2,6-difluorophenyl)methyl]oxy}-6-(methyloxy)quinazolin- 4-amine	
233	W-(3,4-dichlorophenyl)-6-(methyloxy)-7-[({3-[(pyridin-2-ylsulfonyl)methyl]-1,2,4-oxadiazol-5-yl}methyl)oxy]quinazolin-4-amine	
234	N-(3,4-dichlorophenyl)-6-(methyloxy)-7-{[(5-phenyl-1,2,4-oxadiazol-3-y)methyl]oxy}quinazolin-4-amine	
235	yymemyloxyyquinazoini-4-amine 7-{{[4-chloro-2-{trifluoromethyl}quinolin-6-yl]methyl}oxy)-N-(3,4-dichlorophenyl)-6- (methyloxy)quinazoini-4-amine	

	Table 4. Representative EGFR and/or VEGFR Inhibitors
Entry	Name
236	N-(3,4-dichlorophenyl)-6-(methyloxy)-7-{[2-(1-methylpyrrolidin-2-y)ethyl]oxy}quinazolin-4-amine
237	N-(3,4-dichlorophenyl)-7-({[5-(1-ethylpiperidin-4-yl)-1,2,4-oxadiazol-3-yl]methyl}oxy)-6-(methyloxy)quinazolin-4-amine
238	N-(3,4-dichlorophenyl)-7-({[5-(1-ethylpiperidin-3-yl)-1,2,4-oxadiazol-3-yl]methyl}oxy)-6-(methyloxy)quinazolin-4-amine
239	N-(3,4-dichlorophenyl)-7-({[2-(dimethylamino)-1,3-thiazol-4-yl]methyl}oxy)-6- (methyloxy)ouinazolin-4-amine
240	N-(3,4-dichlorophenyl)-7-{[(4-ethyl-1,4-oxazepan-2-yl)methyl]oxy}-6-
241	N-(3,4-dichlorophenyl)-7-({[2-(1-ethylpiperidin-4-yl)-1,3-thiazol-4-yl]methyl}oxy)-6-
242	N-(3,4-dichlorophenyl)-6-(methyloxy)-7-[((3-[(2S)-pyrrolidin-2-yl]-1,2,4-oxadiazol-5-yl]methyl)oxylguinazolin-4-amine
243	N-(3,4-dichlorophenyl)-6-(methyloxy)-7-[((2-[(2S)-pyrrolidin-2-yl]-1,3-thiazol-4-
244	[4-([[4-[(3,4-dichlorophenyl)amino]-6-(methyloxy)quinazolin-7-yl]oxy}methyl)-1,3-
245	[4-({[4-((3,4-dichlorophenyl)amino]-6-(methyloxy)quinazolin-7-yl]oxy} methyl)-1,3-
246	N-(3,4-dichlorophenyl)-6-(methyloxy)-7-{[(5-methyl-4,5,6,7-tetrahydro[1,3]thiazolo[5,4-
247	N-(3,4-dichlorophenyl)-6-(methyloxy)-7-[({2-[(4S)-1,3-thiazolidin-4-yl]-1,3-thiazol-4-
248	N-(3,4-dichlorophenyl)-6-(methyloxy)-7-{[(2-piperidin-2-yl-1,3-thiazol-4-
249	N-(3,4-dichlorophenyl)-6-(methyloxy)-7-({[2-(1-methylpiperidin-2-yl)-1,3-thiazol-4-
250	N-(3,4-dichlorophenyl)-6-(methyloxy)-7-{[(2-piperidin-3-yl-1,3-thiazol-4-
251	y)methyljoxy/quinazonia
252	N-(3.4-dichlorophenyl)-7-({[2-(1-ethylpiperidin-2-yl)-1,3-thiazol-4-yl]methyl}0xy)-0-
253	(methyloxy)quinazolin-4-amine  N-(3,4-dichlorophenyl)-7-({[2-(1-ethylpiperidin-3-yl)-1,3-thiazol-4-yl]methyl}oxy)-6-
254	(methyloxy)quinazolin-4-amine N-(3,4-dichlorophenyl)-7-[({3-[(2S)-1-ethylpyrrolidin-2-yl]-1,2,4-oxadiazol-5-
255	yl}methyl)oxy]-6-(methyloxy)quinazolin-4-amine N-(3,4-dichlorophenyl)-7-[({2-[(2S)-1-ethylpyrrolidin-2-yl]-1,3-thiazol-4-
256	y] methyl)oxy]-6-(methyloxy)quinazolin-4-amine N-(3,4-dichlorophenyl)-7-{[(5-ethyl-4,5,6,7-tetrahydro[1,3]thiazolo[5,4-c]pyridin-2-
	yl)methyl]oxy}-6-(methyloxy)quinazolin-4-amine  N-(3.4-dichlorophenyl)-6-(methyloxy)-7-{[(4-propyl-1,4-oxazepan-2-
257	yl)methyl]oxy}quinazolin-4-amine 7-{{[4-(cyclopropylmethyl)-1,4-oxazepan-2-yl]methyl}oxy)-N-(3,4-dichlorophenyl)-6-
258	(methyloxy)quinazolin-4-amine  N-(3.4-dichlorophenyl)-6-(methyloxy)-7-[((4-[2-(methyloxy)ethyl]-1,4-oxazepan-2-
259	yl}methyl)oxy]quinazolin-4-amine N-(3.4-dichlorophenyl)-7-{[[4-(1-methylethyl)-1,4-oxazepan-2-yl]methyl}oxy)-6-
260	(methyloxy)quinazolin-4-amine  N-(3,4-dichlorophenyl)-6-(methyloxy)-7-{[(2-piperazin-1-yl-1,3-thiazol-4-
261	yl)methyl]oxy}quinazolin-4-amine

	Table 4. Representative EGFR and/or VEGFR Inhibitors		
Entry	Name		
262	N-(3,4-dichlorophenyl)-6-(methyloxy)-7-{[(5-pyrrolidin-2-yl-1,2,4-oxadiazol-3-yl)methyl]oxy}quinazolin-4-amine		
263	N-(3,4-dichlorophenyl)-7-({[5-(1-ethylpyrrolidin-2-yl)-1,2,4-oxadiazol-3-yl]methyl}oxy)-6-(methyloxy)quinazolin-4-amine		
264	N-(3,4-dichlorophenyl)-6-{methyloxy}-7-[({3-[(2S)-1-methylpyrrolidin-2-yl]-1,2,4-oxadiazol-5-yl}methyl)oxy]quinazolin-4-amine		
265	N-(3,4-dichlorophenyl)-6-(methyloxy)-7-[({2-[(2S)-1-methylpyrrolidin-2-yl]-1,3-thiazol- 4-yl}methyl)oxy]quinazolin-4-amine		
266	N-(3,4-dichlorophenyl)-7-({[2-(4-ethylpiperazin-1-yl)-1,3-thiazol-4-yl]methyl}oxy)-6- (methyloxy)quinazolin-4-amine		
267	N-(3,4-dichlorophenyl)-7-{[(1,4-dimethylpiperazin-2-yl)methyl]oxy}-6- (methyloxy)quinazolin-4-amine		
268	7-{[(4-cyclopentylmorpholin-2-yl)methyl]oxy}-N-(3,4-dichlorophenyl)-6- (methyloxy)quinazolin-4-amine		
269	N-(3,4-dichlorophenyl)-7-([[4-(1-methylethyl)morpholin-2-yl]methyl)oxy)-6- (methyloxy)quinazolin-4-amine		
270	N-(3,4-dichlorophenyl)-6-(methyloxy)-7-({[4-(3-phenylpropyl)morpholin-2-yl]methyl} oxy)quinazolin-4-amine		
271	N-(3,4-dichlorophenyl)-6-(methyloxy)-7-[((4-[2-(methyloxy)ethyl]morpholin-2-yl] methyl)oxy]quinazolin-4-amine		
272	ethyl 2-[2-({[4-[(3,4-dichlorophenyl)amino]-6-(methyloxy)quinazolin-7- yl]oxy}methyl)morpholin-4-yl]propanoate		
273	N-(3,4-dichlorophenyl)-7-{[(4-hex-5-en-1-ylmorpholin-2-yl)methyl]oxy}-6- (methyloxy)quinazolin-4-amine		
274	2-({2-[2-({[4-[(3,4-dichlorophenyl)amino]-6-(methyloxy)quinazolin-7- yl]oxy}methyl)morpholin-4-yl]ethyl}oxy)ethanol		
275	methyl 3-[2-({[4-[(3,4-dichlorophenyl)amino]-6-(methyloxy)quinazolin-7- ylloxy}methyl)morpholin-4-yl]propanoate		
276	6-[2-({[4-[(3,4-dichloropheny)]amino]-6-(methyloxy)quinazolin-7- yl]oxy}methyl)morpholin-4-yl]hexanenitrile		
277	N-(3,4-dichlorophenyl)-6-(methyloxy)-7-({[4-(tetrahydro-2H-pyran-2- ylmethyl)morpholin-2-yl]methyl)oxy)quinazolin-4-amine		
278	4-[2-([[4-[(3,4-dichloropheny)]amino]-6-(methyloxy)quinazolin-7- yl]oxy)methyl)morpholin-4-yl]butanenitrile		
279	N-(3,4-dichlorophenyl)-7-[({4-[(4-fluorophenyl)methyl]morpholin-2-yl}methyl)oxy]-6- (methyloxy)quinazolin-4-amine		
280	methyl 5-[2-([[4-[(3,4-dichlorophenyl)amino]-6-(methyloxy)quinazolin-7- yl]oxy}methyl)morpholin-4-yl]pentanoate		
281	N-(3,4-dichlorophenyl)-6-(methyloxy)-7-{[(4-oct-7-en-1-ylmorpholin-2-yl)methyl)oxy} quinazolin-4-amine		
282	// // // // // // // // // // // // //		
283	y)memy poxy quinazonii-4-amine 6-[2-([4-[(3,4-dichlorophenyl)amino]-6-(methyloxy)quinazolii-7- ylloxy) methylmorpholii-4-ylloxan-1-ol		
284	y  oxy  memy  morpholin-4-y  mexan-1-0   7-{[(4-acety morpholin-2-y )methy  oxy -N-(3,4-dichlorophenyl)-6-  (methyloxy)quinazolin-4-amine		
285	\tag{\text{\congrue} \text{\congrue} \co		
286	// (3,4-dichlorophenyl)-6-(methyloxy)-7-{{(4-prop-2-yn-1-ylmorpholin-2-ylymethylloxy}quinazolin-4-amine		
287	y/metny/joxy/quinazonin-4-amine N-(3,4-dichlorophenyl)-6-(methyloxy)-7-{{(4-pyridin-4-ylmorpholin-2- yl)methyl/oxy}quinazolin-4-amine		